

## SEQUENCE LISTING

<110> INCYTE GENOMICS, INC.  
HILLMAN, Jennifer L.  
LAL, Preeti  
TANG, Y. Tom  
YUE, Henry  
AU-YOUNG, Janice  
BANDMAN, Olga  
AZIMZAI, Yalda  
YANG, Junming  
LU, Dyung Aina M.  
BAUGHN, Mariah R.  
PATTERSON, Chandra  
SHAH, Purvi

<120> CELL CYCLE AND PROLIFERATION PROTEINS

<130> PF-0722 PCT

<140> To Be Assigned

<141> Herewith

<150> 60/145,075; 60/153,129; 60/164,647

<151> 1999-07-21; 1999-09-08; 1999-11-10

<160> 108

<170> PERL Program

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<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 116462CD1

<400> 1

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asn | Gly | Arg | Val | Asp | Tyr | Leu | Val | Thr | Glu | Glu | Glu | Ile | Asn |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Leu | Thr | Arg | Gly | Pro | Ser | Gly | Leu | Gly | Phe | Asn | Ile | Val | Gly | Gly |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Thr | Asp | Gln | Gln | Tyr | Val | Ser | Asn | Asp | Ser | Gly | Ile | Tyr | Val | Ser |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Arg | Ile | Lys | Glu | Asn | Gly | Ala | Ala | Ala | Leu | Asp | Gly | Arg | Leu | Gln |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Glu | Gly | Asp | Lys | Ile | Leu | Ser | Val | Asn | Gly | Gln | Asp | Leu | Lys | Asn |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Leu | Leu | His | Gln | Asp | Ala | Val | Asp | Leu | Phe | Arg | Asn | Ala | Gly | Tyr |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Ala | Val | Ser | Leu | Arg | Val | Gln | His | Arg | Leu | Gln | Val | Gln | Asn | Gly |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Pro | Ile | Gly | His | Arg | Gly | Glu | Gly | Asp | Pro | Ser | Gly | Ile | Pro | Ile |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Phe | Met | Val | Leu | Val | Pro | Val | Phe | Ala | Leu | Thr | Met | Val | Ala | Ala |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Trp | Ala | Phe | Met | Arg | Tyr | Arg | Gln | Gln | Leu |     |     |     |     |     |
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<212> PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1210462CD1

&lt;400&gt; 2

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Thr | Gln | Leu | Lys | Ala | Lys | Ser | Glu | Gly | Lys | Leu | Ala | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Gln | Ile | Cys | Lys | Val | Val | Leu | Asp | His | Phe | Glu | Lys | Gln | Tyr | Ser |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Lys | Glu | Leu | Gly | Asp | Ala | Trp | Asn | Thr | Val | Arg | Glu | Ile | Leu | Thr |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ser | Pro | Ser | Cys | Trp | Gln | Tyr | Ala | Val | Leu | Leu | Asn | Arg | Phe | Asn |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Tyr | Pro | Phe | Glu | Leu | Glu | Lys | Asp | Leu | His | Leu | Lys | Gly | Tyr | His |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Thr | Leu | Ser | Gln | Gly | Ser | Leu | Pro | Asn | Tyr | Pro | Lys | Ser | Val | Lys |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Cys | Tyr | Leu | Ser | Arg | Thr | Pro | Gly | Arg | Ile | Pro | Ser | Glu | Arg | His |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Gln | Ile | Gly | Asn | Leu | Lys | Lys | Tyr | Tyr | Leu | Leu | Asn | Ala | Ala | Ser |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Leu | Leu | Pro | Val | Leu | Ala | Leu | Glu | Leu | Arg | Asp | Gly | Glu | Lys | Val |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Leu | Asp | Leu | Cys | Ala | Ala | Pro | Gly | Gly | Lys | Ser | Ile | Ala | Leu | Leu |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Gln | Cys | Ala | Cys | Pro | Gly | Tyr | Leu | His | Cys | Asn | Glu | Tyr | Asp | Ser |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Leu | Arg | Leu | Arg | Trp | Leu | Arg | Gln | Thr | Leu | Glu | Ser | Phe | Ile | Pro |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Gln | Pro | Leu | Ile | Asn | Val | Ile | Lys | Val | Ser | Glu | Leu | Asp | Gly | Arg |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Lys | Met | Gly | Asp | Ala | Gln | Pro | Glu | Met | Phe | Asp | Lys | Val | Leu | Val |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Asp | Ala | Pro | Cys | Ser | Asn | Asp | Arg | Ser | Trp | Leu | Phe | Ser | Ser | Asp |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Ser | Gln | Lys | Ala | Ser | Cys | Arg | Ile | Ser | Gln | Arg | Arg | Asn | Leu | Pro |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Leu | Leu | Gln | Ile | Glu | Leu | Leu | Arg | Ser | Ala | Ile | Lys | Ala | Leu | Arg |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Pro | Gly | Gly | Ile | Leu | Val | Tyr | Ser | Thr | Cys | Thr | Leu | Ser | Lys | Ala |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Glu | Asn | Gln | Asp | Val | Ile | Ser | Glu | Ile | Leu | Asn | Ser | His | Gly | Asn |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Ile | Met | Pro | Met | Asp | Ile | Lys | Gly | Ile | Ala | Arg | Thr | Cys | Ser | His |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Asp | Phe | Thr | Phe | Ala | Pro | Thr | Gly | Gln | Glu | Cys | Gly | Leu | Leu | Val |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Ile | Pro | Asp | Lys | Gly | Lys | Ala | Trp | Gly | Pro | Met | Tyr | Val | Ala | Lys |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Leu | Lys | Lys | Ser | Trp | Ser | Thr | Gly | Lys | Trp |     |     |     |     |     |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     |     |

&lt;210&gt; 3

&lt;211&gt; 418

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1305252CD1

&lt;400&gt; 3

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Tyr | Leu | Glu | Asp | Tyr | Leu | Glu | Met | Ile | Glu | Gln | Leu | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Met | Asp | Leu | Arg | Asp | Arg | Phe | Thr | Glu | Met | Arg | Glu | Met | Asp | Leu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Gln | Val | Gln | Asn | Ala | Met | Asp | Gln | Leu | Glu | Gln | Arg | Val | Ser | Glu |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Phe | Phe | Met | Asn | Ala | Lys | Lys | Asn | Lys | Pro | Glu | Trp | Arg | Glu | Glu |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Gln | Met | Ala | Ser | Ile | Lys | Lys | Asp | Tyr | Tyr | Lys | Ala | Leu | Glu | Asp |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Ala | Asp | Glu | Lys | Val | Gln | Leu | Ala | Asn | Gln | Ile | Tyr | Asp | Leu | Val |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Asp | Arg | His | Leu | Arg | Lys | Leu | Asp | Gln | Glu | Leu | Ala | Lys | Phe | Lys |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Met | Glu | Leu | Glu | Ala | Asp | Asn | Ala | Gly | Ile | Thr | Glu | Ile | Leu | Glu |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Arg | Arg | Ser | Leu | Glu | Leu | Asp | Thr | Pro | Ser | Gln | Pro | Val | Asn | Asn |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| His | His | Ala | His | Ser | His | Thr | Pro | Val | Glu | Lys | Arg | Lys | Tyr | Asn |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Pro | Thr | Ser | His | His | Thr | Thr | Thr | Asp | His | Ile | Pro | Glu | Lys | Lys |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Phe | Lys | Ser | Glu | Ala | Leu | Leu | Ser | Thr | Leu | Thr | Ser | Asp | Ala | Ser |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Lys | Glu | Asn | Thr | Leu | Gly | Cys | Arg | Asn | Asn | Asn | Ser | Thr | Ala | Ser |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Ser | Asn | Asn | Ala | Tyr | Asn | Val | Asn | Ser | Ser | Gln | Pro | Leu | Gly | Ser |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Tyr | Asn | Ile | Gly | Ser | Leu | Ser | Ser | Gly | Thr | Gly | Ala | Gly | Ala | Ile |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Thr | Met | Ala | Ala | Ala | Gln | Ala | Val | Gln | Ala | Thr | Ala | Gln | Met | Lys |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Glu | Gly | Arg | Arg | Thr | Ser | Ser | Leu | Lys | Ala | Ser | Tyr | Glu | Ala | Phe |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Lys | Asn | Asn | Asp | Phe | Gln | Leu | Gly | Lys | Glu | Phe | Ser | Met | Ala | Arg |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Glu | Thr | Val | Gly | Tyr | Ser | Ser | Ser | Ser | Ala | Leu | Met | Thr | Thr | Leu |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Thr | Gln | Asn | Ala | Ser | Ser | Ser | Ala | Ala | Asp | Ser | Arg | Ser | Gly | Arg |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Lys | Ser | Lys | Asn | Asn | Asn | Lys | Ser | Ser | Ser | Gln | Gln | Ser | Ser | Ser |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Ser | Ser | Ser | Ser | Ser | Ser | Leu | Ser | Ser | Cys | Ser | Ser | Ser | Ser | Thr |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Val | Val | Gln | Glu | Ile | Ser | Gln | Gln | Thr | Thr | Val | Val | Pro | Glu | Ser |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Asp | Ser | Asn | Ser | Gln | Val | Asp | Trp | Thr | Tyr | Asp | Pro | Asn | Glu | Pro |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Arg | Tyr | Cys | Ile | Cys | Asn | Gln | Val | Ser | Tyr | Gly | Glu | Met | Val | Gly |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Cys | Asp | Asn | Gln | Asp | Cys | Pro | Ile | Glu | Trp | Phe | His | Tyr | Gly | Cys |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Val | Gly | Leu | Thr | Glu | Ala | Pro | Lys | Gly | Lys | Trp | Tyr | Cys | Pro | Gln |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Cys | Thr | Ala | Ala | Met | Lys | Arg | Arg | Gly | Ser | Arg | His | Lys |     |     |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     |     |

&lt;210&gt; 4

&lt;211&gt; 297

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1416289CD1

&lt;400&gt; 4

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Tyr | Asn | Val | Ile | Ile | Ile | Tyr | Phe | Asn | Phe | Arg | Cys | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Glu | Trp | Leu | Leu | Asn | Asn | Leu | Met | Thr | His | Gln | Asn | Val | Glu | Leu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Phe | Lys | Glu | Leu | Ser | Ile | Asn | Val | Met | Lys | Gln | Leu | Ile | Gly | Ser |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ser | Asn | Leu | Phe | Val | Met | Gln | Val | Glu | Met | Asp | Ile | Tyr | Thr | Ala |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Leu | Lys | Lys | Trp | Met | Phe | Leu | Gln | Leu | Val | Pro | Ser | Trp | Asn | Gly |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Ser | Leu | Lys | Gln | Leu | Leu | Thr | Glu | Thr | Asp | Val | Trp | Phe | Ser | Lys |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Gln | Arg | Lys | Asp | Phe | Glu | Gly | Met | Ala | Phe | Leu | Glu | Thr | Glu | Gln |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Gly | Lys | Pro | Phe | Val | Ser | Val | Phe | Arg | His | Leu | Arg | Leu | Gln | Tyr |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Ile | Ile | Ser | Asp | Leu | Ala | Ser | Ala | Arg | Ile | Ile | Glu | Gln | Asp | Ala |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Val | Val | Pro | Ser | Glu | Trp | Leu | Ser | Ser | Val | Tyr | Lys | Gln | Gln | Trp |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Phe | Ala | Met | Leu | Arg | Ala | Glu | Gln | Asp | Ser | Glu | Val | Gly | Pro | Gln |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Glu | Ile | Asn | Lys | Glu | Glu | Leu | Glu | Gly | Asn | Ser | Met | Arg | Cys | Gly |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Arg | Lys | Leu | Ala | Lys | Asp | Gly | Glu | Tyr | Cys | Trp | Arg | Trp | Thr | Gly |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Phe | Asn | Phe | Gly | Phe | Asp | Leu | Leu | Val | Thr | Tyr | Thr | Asn | Arg | Tyr |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Ile | Ile | Phe | Lys | Arg | Asn | Thr | Leu | Asn | Gln | Pro | Cys | Ser | Gly | Ser |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Val | Ser | Leu | Gln | Pro | Arg | Arg | Ser | Ile | Ala | Phe | Arg | Leu | Arg | Leu |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ala | Ser | Phe | Asp | Ser | Ser | Gly | Lys | Leu | Ile | Cys | Ser | Arg | Thr | Thr |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Gly | Tyr | Gln | Ile | Leu | Thr | Leu | Glu | Lys | Asp | Gln | Glu | Gln | Val | Val |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Met | Asn | Leu | Asp | Ser | Arg | Leu | Leu | Ile | Phe | Pro | Leu | Tyr | Ile | Cys |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Cys | Asn | Phe | Leu | Tyr | Ile | Ser | Pro | Glu | Lys | Lys | Asn |     |     |     |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     |     |

&lt;210&gt; 5

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1558289CD1

&lt;400&gt; 5

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Ser | Phe | Ser | Ser | Lys | Ser | Leu | Ala | Leu | Gln | Ala | Glu | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Lys | Leu | Leu | Ser | Lys | Met | Ala | Gly | Arg | Ser | Val | Ala | His | Leu | Phe |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Ile | Asp | Glu | Thr | Ser | Ser | Glu | Val | Leu | Asp | Glu | Leu | Tyr | Arg | Val |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ser | Lys | Glu | Tyr | Thr | His | Ser | Arg | Pro | Gln | Ala | Gln | Arg | Val | Ile |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Lys | Asp | Leu | Ile | Lys | Val | Ala | Ile | Lys | Val | Ala | Val | Leu | His | Arg |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |



Asn Gly Ser Phe Gly Pro Ser Glu Leu Ala Leu Ala Thr Arg Phe  
                     80                    85                    90  
 Arg Gln Lys Leu Arg Gln Gly Ala Met Thr Ala Leu Ser Phe Gly  
                     95                    100                    105  
 Glu Val Asp Phe Thr Phe Glu Ala Ala Val Leu Ala Gly Leu Leu  
                     110                    115                    120  
 Thr Glu Cys Arg Asp Val Leu Leu Glu Leu Val Glu His His Leu  
                     125                    130                    135  
 Thr Pro Lys Ser His Gly Arg Ile Arg His Val Phe Asp His Phe  
                     140                    145                    150  
 Ser Asp Pro Gly Leu Leu Thr Ala Leu Tyr Gly Pro Asp Phe Thr  
                     155                    160                    165  
 Gln His Leu Gly Lys Ile Cys Asp Gly Leu Arg Lys Leu Leu Asp  
                     170                    175                    180  
 Glu Gly Lys Leu

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 <213> Homo sapiens

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 Leu Gln Asn Lys Glu Leu Phe Ser Ser Leu Lys Lys Gly Lys Ile  
                     20                    25                    30  
 Cys Cys Cys Cys Arg Ala Lys Phe Pro Leu Phe Ser Trp Pro Pro  
                     35                    40                    45  
 Ser Cys Leu Phe Cys Lys Arg Ala Val Cys Thr Ser Cys Ser Ile  
                     50                    55                    60  
 Lys Met Lys Met Pro Ser Lys Lys Phe Gly His Ile Pro Val Tyr  
                     65                    70                    75  
 Thr Leu Gly Phe Glu Ser Pro Gln Arg Val Ser Ala Ala Lys Thr  
                     80                    85                    90  
 Ala Pro Ile Gln Arg Arg Asp Ile Phe Gln Ser Leu Gln Gly Pro  
                     95                    100                    105  
 Gln Trp Gln Ser Val Glu Glu Ala Phe Pro His Ile Tyr Ser His  
                     110                    115                    120  
 Gly Cys Val Leu Lys Asp Val Cys Ser Glu Cys Thr Ser Phe Val  
                     125                    130                    135  
 Ala Asp Val Val Arg Ser Ser Arg Lys Ser Val Asp Val Leu Asn  
                     140                    145                    150  
 Thr Thr Pro Arg Arg Ser Arg Gln Thr Gln Ser Leu Tyr Ile Pro  
                     155                    160                    165  
 Asn Thr Arg Thr Leu Asp Phe Lys  
                     170

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<220>  
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<400> 7  
 Met Val Pro Val Ala Val Thr Ala Ala Val Ala Pro Val Leu Ser  
     1                    5                    10                    15  
 Ile Asn Ser Asp Phe Ser Asp Leu Arg Glu Ile Lys Lys Gln Leu

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| Leu | Leu | Ile | Ala | Gly | Leu | Thr | Arg | Glu | Arg | Gly | Leu | Leu | His | Ser | 20 | 25 | 30 |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |    |    |    |
| Ser | Lys | Trp | Ser | Ala | Glu | Leu | Ala | Phe | Ser | Leu | Pro | Ala | Leu | Pro |    |    |    |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |    |    |    |
| Leu | Ala | Glu | Leu | Gln | Pro | Pro | Pro | Pro | Ile | Thr | Glu | Glu | Asp | Ala |    |    |    |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |    |    |    |
| Gln | Asp | Met | Asp | Ala | Tyr | Thr | Leu | Ala | Lys | Ala | Tyr | Phe | Asp | Val |    |    |    |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |    |    |    |
| Lys | Glu | Tyr | Asp | Arg | Ala | Ala | His | Phe | Leu | His | Gly | Cys | Asn | Ser |    |    |    |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |    |    |    |
| Lys | Lys | Ala | Tyr | Phe | Leu | Tyr | Met | Tyr | Ser | Arg | Tyr | Leu | Ser | Gly |    |    |    |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |    |    |    |
| Glu | Lys | Lys | Lys | Asp | Asp | Glu | Thr | Val | Asp | Ser | Leu | Gly | Pro | Leu |    |    |    |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |    |    |    |
| Glu | Lys | Gly | Gln | Val | Lys | Asn | Glu | Ala | Leu | Arg | Glu | Leu | Arg | Val |    |    |    |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |    |    |    |
| Glu | Leu | Ser | Lys | Lys | His | Gln | Ala | Arg | Glu | Leu | Asp | Gly | Phe | Gly |    |    |    |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |    |    |    |
| Leu | Tyr | Leu | Tyr | Gly | Val | Val | Leu | Arg | Lys | Leu | Asp | Leu | Val | Lys |    |    |    |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |    |    |    |
| Glu | Ala | Ile | Asp | Val | Phe | Val | Glu | Ala | Thr | His | Val | Leu | Pro | Leu |    |    |    |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |    |    |    |
| His | Trp | Gly | Ala | Trp | Leu | Glu | Leu | Cys | Asn | Leu | Ile | Thr | Asp | Lys |    |    |    |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |    |    |    |
| Glu | Met | Leu | Lys | Phe | Leu | Ser | Leu | Pro | Asp | Thr | Trp | Met | Lys | Glu |    |    |    |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |    |    |    |
| Phe | Phe | Leu | Ala | His | Ile | Tyr | Thr | Glu | Leu | Gln | Leu | Ile | Glu | Glu |    |    |    |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |    |    |    |
| Ala | Leu | Gln | Lys | Tyr | Gln | Asn | Leu | Ile | Asp | Val | Gly | Phe | Ser | Lys |    |    |    |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |    |    |    |
| Ser | Ser | Tyr | Ile | Val | Ser | Gln | Ile | Ala | Val | Ala | Tyr | His | Asn | Ile |    |    |    |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |    |    |    |
| Arg | Asp | Ile | Asp | Lys | Ala | Leu | Ser | Ile | Phe | Asn | Glu | Leu | Arg | Lys |    |    |    |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |    |    |    |
| Gln | Asp | Pro | Tyr | Arg | Ile | Glu | Asn | Met | Asp | Thr | Phe | Ser | Asn | Leu |    |    |    |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |    |    |    |
| Leu | Tyr | Val | Arg | Ser | Met | Lys | Ser | Glu | Leu | Ser | Tyr | Leu | Ala | His |    |    |    |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |    |    |    |
| Asn | Leu | Cys | Glu | Ile | Asp | Lys | Tyr | Arg | Val | Glu | Thr | Cys | Cys | Val |    |    |    |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |    |    |    |
| Ile | Gly | Asn | Tyr | Tyr | Ser | Leu | Arg | Ser | Gln | His | Glu | Lys | Ala | Ala |    |    |    |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |    |    |    |
| Leu | Tyr | Phe | Gln | Arg | Ala | Leu | Lys | Leu | Asn | Pro | Arg | Tyr | Leu | Gly |    |    |    |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |    |    |    |
| Ala | Trp | Thr | Leu | Met | Gly | His | Glu | Tyr | Met | Glu | Met | Lys | Asn | Thr |    |    |    |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |    |    |    |
| Ser | Ala | Ala | Ile | Gln | Ala | Tyr | Arg | His | Ala | Ile | Glu | Val | Asn | Lys |    |    |    |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |    |    |    |
| Arg | Asp | Tyr | Arg | Ala | Trp | Tyr | Gly | Leu | Gly | Gln | Thr | Tyr | Glu | Ile |    |    |    |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |    |    |    |
| Leu | Lys | Met | Pro | Phe | Tyr | Cys | Leu | Tyr | Tyr | Cys | Arg | Arg | Ala | His |    |    |    |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |    |    |    |
| Gln | Leu | Arg | Pro | Asn | Asp | Ser | Arg | Met | Leu | Val | Ala | Leu | Gly | Glu |    |    |    |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |    |    |    |
| Cys | Tyr | Glu | Lys | Leu | Asn | Gln | Leu | Val | Glu | Ala | Lys | Lys | Cys | Tyr |    |    |    |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |    |    |    |
| Trp | Arg | Ala | Tyr | Ala | Val | Gly | Asp | Val | Glu | Lys | Met | Ala | Leu | Val |    |    |    |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |    |    |    |
| Lys | Leu | Ala | Lys | Leu | His | Glu | Gln | Leu | Thr | Glu | Ser | Glu | Gln | Ala |    |    |    |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |    |    |    |
| Ala | Gln | Cys | Tyr | Ile | Lys | Tyr | Ile | Gln | Asp | Ile | Tyr | Ser | Cys | Gly |    |    |    |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |    |    |    |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ile | Val | Glu | His | Leu | Glu | Glu | Ser | Thr | Ala | Phe | Arg | Tyr | Leu |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Ala | Gln | Tyr | Tyr | Phe | Lys | Cys | Lys | Leu | Trp | Asp | Glu | Ala | Ser | Thr |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Cys | Ala | Gln | Lys | Cys | Cys | Ala | Phe | Asn | Asp | Thr | Arg | Glu | Glu | Gly |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |
| Lys | Ala | Leu | Leu | Arg | Gln | Ile | Leu | Gln | Leu | Arg | Asn | Gln | Gly | Glu |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |
| Thr | Pro | Thr | Thr | Glu | Val | Pro | Ala | Pro | Phe | Phe | Leu | Pro | Ala | Ser |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |
| Leu | Ser | Ala | Asn | Asn | Thr | Pro | Thr | Arg | Arg | Val | Ser | Pro | Leu | Asn |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |
| Leu | Ser | Ser | Val | Thr | Pro |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 590 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 8

&lt;211&gt; 463

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1887228CD1

&lt;400&gt; 8

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Leu | Leu | Asn | Trp | Val | Ala | Leu | Lys | Pro | Ser | Gln | Ile | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Gly | Thr | Val | Phe | Thr | Glu | Leu | Asn | Asp | Glu | Lys | Val | Leu | Gln | Glu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Leu | Asp | Met | Ser | Asp | Phe | Glu | Glu | Gln | Phe | Lys | Thr | Lys | Ser | Gln |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Gly | Pro | Ser | Leu | Asp | Leu | Ser | Ala | Leu | Lys | Ser | Lys | Ala | Ala | Gln |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Lys | Ala | Pro | Ser | Lys | Ala | Thr | Leu | Ile | Glu | Ala | Asn | Arg | Ala | Lys |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Asn | Leu | Ala | Ile | Thr | Leu | Arg | Lys | Gly | Asn | Leu | Gly | Ala | Glu | Arg |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Ile | Cys | Gln | Ala | Ile | Glu | Ala | Tyr | Asp | Leu | Gln | Ala | Leu | Gly | Leu |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Asp | Phe | Leu | Glu | Leu | Leu | Met | Arg | Phe | Leu | Pro | Thr | Glu | Tyr | Glu |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Arg | Ser | Leu | Ile | Thr | Arg | Phe | Glu | Arg | Glu | Gln | Arg | Pro | Met | Glu |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Glu | Leu | Ser | Glu | Glu | Asp | Arg | Phe | Met | Leu | Cys | Phe | Ser | Arg | Ile |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Pro | Arg | Leu | Pro | Glu | Arg | Met | Thr | Thr | Leu | Thr | Phe | Leu | Gly | Asn |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Phe | Pro | Asp | Thr | Ala | Gln | Leu | Leu | Met | Pro | Gln | Leu | Asn | Ala | Ile |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ile | Ala | Ala | Ser | Met | Ser | Ile | Lys | Ser | Ser | Asp | Lys | Leu | Arg | Gln |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Ile | Leu | Glu | Ile | Val | Leu | Ala | Phe | Gly | Asn | Tyr | Met | Asn | Ser | Ser |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Lys | Arg | Gly | Ala | Ala | Tyr | Gly | Phe | Arg | Leu | Gln | Ser | Leu | Asp | Ala |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Leu | Leu | Glu | Met | Lys | Ser | Thr | Asp | Arg | Lys | Gln | Thr | Leu | Leu | His |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Tyr | Leu | Val | Lys | Val | Ile | Ala | Glu | Lys | Tyr | Pro | Gln | Leu | Thr | Gly |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Phe | His | Ser | Asp | Leu | His | Phe | Leu | Asp | Lys | Ala | Gly | Ser | Val | Ser |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Leu | Asp | Ser | Val | Leu | Ala | Asp | Val | Arg | Ser | Leu | Gln | Arg | Gly | Leu |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Glu | Leu | Thr | Gln | Arg | Glu | Phe | Val | Arg | Gln | Asp | Asp | Cys | Met | Val |

|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 290                 |                     | 295 |  | 300 |
| Leu Lys Glu Phe | Leu Arg Ala Asn Ser | Pro Thr Met Asp Lys | Leu |  |     |
|                 | 305                 |                     | 310 |  | 315 |
| Leu Ala Asp Ser | Lys Thr Ala Gln Glu | Ala Phe Glu Ser Val | Val |  |     |
|                 | 320                 |                     | 325 |  | 330 |
| Glu Tyr Phe Gly | Glu Asn Pro Lys Thr | Thr Ser Pro Gly Leu | Phe |  |     |
|                 | 335                 |                     | 340 |  | 345 |
| Phe Ser Leu Phe | Ser Arg Phe Ile Lys | Ala Tyr Lys Lys Ala | Glu |  |     |
|                 | 350                 |                     | 355 |  | 360 |
| Gln Glu Val Glu | Gln Trp Lys Lys Glu | Ala Ala Ala Gln Glu | Ala |  |     |
|                 | 365                 |                     | 370 |  | 375 |
| Gly Ala Asp Thr | Pro Gly Lys Gly Glu | Pro Pro Ala Pro Lys | Ser |  |     |
|                 | 380                 |                     | 385 |  | 390 |
| Pro Pro Lys Ala | Arg Arg Pro Gln Met | Asp Leu Ile Ser Glu | Leu |  |     |
|                 | 395                 |                     | 400 |  | 405 |
| Lys Arg Arg Gln | Gln Lys Glu Pro Leu | Ile Tyr Glu Ser Asp | Arg |  |     |
|                 | 410                 |                     | 415 |  | 420 |
| Asp Gly Ala Ile | Glu Asp Ile Ile Thr | Asp Leu Arg Asn Gln | Pro |  |     |
|                 | 425                 |                     | 430 |  | 435 |
| Tyr Ile Arg Ala | Asp Thr Gly Arg Arg | Ser Ala Arg Arg Arg | Pro |  |     |
|                 | 440                 |                     | 445 |  | 450 |
| Pro Gly Pro Pro | Leu Gln Val Thr Ser | Asp Leu Ser Leu     |     |  |     |
|                 | 455                 |                     | 460 |  |     |

&lt;210&gt; 9

&lt;211&gt; 270

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1988468CD1

&lt;400&gt; 9

|                 |                     |                     |     |
|-----------------|---------------------|---------------------|-----|
| Met Ala Asp His | Met Met Ala Met Asn | His Gly Arg Phe Pro | Asp |
| 1               | 5                   | 10                  | 15  |
| Gly Thr Asn Gly | Leu His His His Pro | Ala His Arg Met Gly | Met |
|                 | 20                  | 25                  | 30  |
| Gly Gln Phe Pro | Ser Pro His His His | Gln Gln Gln Gln Pro | Gln |
|                 | 35                  | 40                  | 45  |
| His Ala Phe Asn | Ala Leu Met Gly Glu | His Ile His Tyr Gly | Ala |
|                 | 50                  | 55                  | 60  |
| Gly Asn Met Asn | Ala Thr Ser Gly Ile | Arg His Ala Met Gly | Pro |
|                 | 65                  | 70                  | 75  |
| Gly Thr Val Asn | Gly Gly His Pro Pro | Ser Ala Leu Ala Pro | Ala |
|                 | 80                  | 85                  | 90  |
| Ala Arg Phe Asn | Asn Ser Gln Phe Met | Gly Pro Pro Val Ala | Ser |
|                 | 95                  | 100                 | 105 |
| Gln Gly Gly Ser | Leu Pro Ala Ser Met | Gln Leu Gln Lys Leu | Asn |
|                 | 110                 | 115                 | 120 |
| Asn Gln Tyr Phe | Asn His His Pro Tyr | Pro His Asn His Tyr | Met |
|                 | 125                 | 130                 | 135 |
| Pro Asp Leu His | Pro Ala Ala Gly His | Gln Met Asn Gly Thr | Asn |
|                 | 140                 | 145                 | 150 |
| Gln His Phe Arg | Asp Cys Asn Pro Lys | His Ser Gly Gly Ser | Ser |
|                 | 155                 | 160                 | 165 |
| Thr Pro Gly Gly | Ser Gly Gly Ser Ser | Thr Pro Gly Gly Ser | Gly |
|                 | 170                 | 175                 | 180 |
| Ser Ser Ser Gly | Gly Gly Ala Gly Ser | Ser Asn Ser Gly Gly | Gly |
|                 | 185                 | 190                 | 195 |
| Ser Gly Ser Gly | Asn Met Pro Ala Ser | Val Ala His Val Pro | Ala |
|                 | 200                 | 205                 | 210 |
| Ala Met Leu Pro | Pro Asn Val Ile Asp | Thr Asp Phe Ile Asp | Glu |
|                 | 215                 | 220                 | 225 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Leu | Met | Ser | Leu | Val | Ile | Glu | Met | Gly | Leu | Asp | Arg | Ile |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Lys | Glu | Leu | Pro | Glu | Leu | Trp | Leu | Gly | Gln | Asn | Glu | Phe | Asp | Phe |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Met | Thr | Asp | Phe | Val | Cys | Lys | Gln | Gln | Pro | Ser | Arg | Val | Ser | Cys |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |

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 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2049176CD1

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Ser | Trp | Met | Ile | Ser | Arg | Ala | Val | Val | Leu | Val | Phe | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Met | Leu | Tyr | Pro | Ala | Tyr | Tyr | Ser | Tyr | Lys | Ala | Val | Lys | Thr | Lys |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Asn | Val | Lys | Glu | Tyr | Val | Arg | Trp | Met | Met | Tyr | Trp | Ile | Val | Phe |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ala | Leu | Tyr | Thr | Val | Ile | Glu | Thr | Val | Ala | Asp | Gln | Thr | Val | Ala |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Trp | Phe | Pro | Leu | Tyr | Tyr | Glu | Leu | Lys | Ile | Ala | Phe | Val | Ile | Trp |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Leu | Leu | Ser | Pro | Tyr | Thr | Lys | Gly | Ala | Ser | Leu | Ile | Tyr | Arg | Lys |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Phe | Leu | His | Pro | Leu | Leu | Ser | Ser | Lys | Glu | Arg | Glu | Ile | Asp | Asp |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Tyr | Ile | Val | Gln | Ala | Lys | Glu | Arg | Gly | Tyr | Glu | Thr | Met | Val | Asn |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Phe | Gly | Arg | Gln | Gly | Leu | Asn | Leu | Ala | Ala | Thr | Ala | Ala | Val | Thr |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Ala | Ala | Val | Lys | Ser | Gln | Gly | Ala | Ile | Thr | Glu | Arg | Leu | Arg | Ser |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Phe | Ser | Met | His | Asp | Leu | Thr | Thr | Ile | Gln | Gly | Asp | Glu | Pro | Val |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Gly | Gln | Arg | Pro | Tyr | Gln | Pro | Leu | Pro | Glu | Ala | Lys | Lys | Lys | Ser |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Lys | Pro | Ala | Pro | Ser | Glu | Ser | Ala | Gly | Tyr | Gly | Ile | Pro | Leu | Lys |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Asp | Gly | Asp | Glu | Lys | Thr | Asp | Glu | Glu | Ala | Glu | Gly | Pro | Tyr | Ser |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Asp | Asn | Glu | Met | Leu | Thr | His | Lys | Gly | Leu | Arg | Arg | Ser | Gln | Ser |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Met | Lys | Ser | Val | Lys | Thr | Thr | Lys | Gly | Arg | Lys | Glu | Val | Arg | Tyr |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gly | Ser | Leu | Lys | Tyr | Lys | Val | Lys | Lys | Arg | Pro | Gln | Val | Tyr | Phe |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |

<210> 11  
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 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2686765CD1

<400> 11  
 Met Ser Gly Thr Leu Glu Ser Leu Ala Asp Asp Val Ser Ser Met

|                     |                 |                     |     |
|---------------------|-----------------|---------------------|-----|
| 1                   | 5               | 10                  | 15  |
| Gly Ser Asp Ser Glu | Ile Asn Gly Leu | Ala Leu Arg Lys Thr | Asp |
| 20                  | 25              | 30                  |     |
| Lys Tyr Gly Phe Leu | Gly Gly Ser Gln | Tyr Ser Gly Ser Leu | Glu |
| 35                  | 40              | 45                  |     |
| Ser Ser Ile Pro Val | Asp Val Ala Arg | Gln Arg Glu Leu Lys | Trp |
| 50                  | 55              | 60                  |     |
| Leu Asp Met Phe Ser | Asn Trp Asp Lys | Trp Leu Ser Arg Arg | Phe |
| 65                  | 70              | 75                  |     |
| Gln Lys Val Lys Leu | Arg Cys Arg Lys | Gly Ile Pro Ser Ser | Leu |
| 80                  | 85              | 90                  |     |
| Arg Ala Lys Ala Trp | Gln Tyr Leu Ser | Asn Ser Lys Glu Leu | Leu |
| 95                  | 100             | 105                 |     |
| Glu Gln Asn Pro Gly | Lys Phe Glu Glu | Leu Glu Arg Ala Pro | Gly |
| 110                 | 115             | 120                 |     |
| Asp Pro Lys Trp Leu | Asp Val Ile Glu | Lys Asp Leu His Arg | Gln |
| 125                 | 130             | 135                 |     |
| Phe Pro Phe His Glu | Met Phe Ala Ala | Arg Gly Gly His Gly | Gln |
| 140                 | 145             | 150                 |     |
| Gln Asp Leu Tyr Arg | Ile Leu Lys Ala | Tyr Thr Ile Tyr Arg | Pro |
| 155                 | 160             | 165                 |     |
| Asp Glu Gly Tyr Cys | Gln Ala Gln Ala | Pro Val Ala Ala Val | Leu |
| 170                 | 175             | 180                 |     |
| Leu Met His Met Pro | Ala Glu Lys Pro | Phe Gly Ala Trp Val | Gln |
| 185                 | 190             | 195                 |     |
| Ile Cys Asp Lys Tyr | Leu Pro Gly Tyr | Tyr Ser Ala Gly Leu | Glu |
| 200                 | 205             | 210                 |     |
| Ala Ile Gln Leu Asp | Gly Glu Ile Phe | Phe Ala Leu Leu Arg | Arg |
| 215                 | 220             | 225                 |     |
| Ala Ser Pro Leu Ala | His Arg His Leu | Gln Arg Gln Arg Ile | Asp |
| 230                 | 235             | 240                 |     |
| Pro Val Leu Tyr Met | Thr Glu Trp Phe | Met Cys Ile Phe Ala | Arg |
| 245                 | 250             | 255                 |     |
| Thr Leu Pro Trp Ala | Ser Val Leu Arg | Val Trp Asp Met Phe | Phe |
| 260                 | 265             | 270                 |     |
| Cys Glu Gly Val Lys | Ile Ile Phe Arg | Val Ala Leu Val Leu | Leu |
| 275                 | 280             | 285                 |     |
| Arg His Thr Leu Gly | Ser Val Glu Lys | Leu Arg Ser Cys Gln | Gly |
| 290                 | 295             | 300                 |     |
| Met Tyr Glu Thr Met | Glu Gln Leu Arg | Asn Leu Pro Gln Gln | Cys |
| 305                 | 310             | 315                 |     |
| Met Gln Glu Asp Phe | Leu Val His Glu | Val Thr Asn Leu Pro | Val |
| 320                 | 325             | 330                 |     |
| Thr Glu Ala Leu Ile | Glu Arg Glu Asn | Ala Ala Gln Leu Lys | Lys |
| 335                 | 340             | 345                 |     |
| Trp Arg Glu Thr Arg | Gly Glu Leu Gln | Tyr Arg Pro Ser Arg | Arg |
| 350                 | 355             | 360                 |     |
| Leu His Gly Ser Arg | Ala Ile His Glu | Glu Arg Arg Arg Gln | Gln |
| 365                 | 370             | 375                 |     |
| Pro Pro Leu Gly Pro | Ser Ser Ser Leu | Leu Ser Leu Pro Gly | Leu |
| 380                 | 385             | 390                 |     |
| Lys Ser Arg Gly Ser | Arg Ala Ala Gly | Gly Ala Pro Ser Pro | Pro |
| 395                 | 400             | 405                 |     |
| Pro Pro Val Arg Arg | Ala Ser Ala Gly | Pro Ala Pro Gly Pro | Val |
| 410                 | 415             | 420                 |     |
| Val Thr Ala Glu Gly | Leu His Pro Ser | Leu Pro Ser Pro Thr | Gly |
| 425                 | 430             | 435                 |     |
| Asn Ser Thr Pro Leu | Gly Ser Ser Lys | Glu Thr Arg Lys Gln | Glu |
| 440                 | 445             | 450                 |     |
| Lys Glu Arg Gln Lys | Gln Glu Lys Glu | Arg Gln Lys Gln Glu | Lys |
| 455                 | 460             | 465                 |     |
| Glu Arg Glu Lys Glu | Arg Gln Lys Gln | Glu Lys Glu Arg Glu | Lys |
| 470                 | 475             | 480                 |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Glu | Lys | Glu | Arg | Glu | Lys | Gln | Glu | Lys | Glu | Arg | Gln | Lys | Gln |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Glu | Lys | Lys | Ala | Gln | Gly | Arg | Lys | Leu | Ser | Leu | Arg | Arg | Lys | Ala |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Asp | Gly | Pro | Pro | Gly | Pro | His | Asp | Gly | Gly | Asp | Arg | Pro | Ser | Ala |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Glu | Ala | Arg | Gln | Asp | Ala | Tyr | Phe |     |     |     |     |     |     |     |
|     |     |     |     | 530 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 12

&lt;211&gt; 160

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3215187CD1

&lt;400&gt; 12

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Phe | Thr | Phe | Ala | Ala | Phe | Cys | Tyr | Met | Leu | Ser | Leu | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Leu | Cys | Ala | Ala | Leu | Ile | Phe | Phe | Ala | Ile | Trp | His | Ile | Ile | Ala |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Phe | Asp | Glu | Leu | Arg | Thr | Asp | Phe | Lys | Ser | Pro | Ile | Asp | Gln | Cys |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Asn | Pro | Val | His | Ala | Arg | Glu | Arg | Leu | Arg | Asn | Ile | Glu | Arg | Ile |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Cys | Phe | Leu | Leu | Arg | Lys | Leu | Val | Leu | Pro | Glu | Tyr | Ser | Ile | His |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Ser | Leu | Phe | Cys | Ile | Met | Phe | Leu | Cys | Ala | Gln | Glu | Trp | Leu | Thr |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Leu | Gly | Leu | Asn | Val | Pro | Leu | Leu | Phe | Tyr | His | Phe | Trp | Arg | Tyr |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Phe | His | Cys | Pro | Ala | Asp | Ser | Ser | Glu | Leu | Ala | Tyr | Asp | Pro | Pro |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Val | Val | Met | Asn | Ala | Asp | Thr | Leu | Ser | Tyr | Cys | Gln | Lys | Glu | Ala |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Trp | Cys | Lys | Leu | Ala | Phe | Tyr | Leu | Leu | Ser | Phe | Phe | Tyr | Tyr | Leu |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Tyr | Cys | Met | Ile | Tyr | Thr | Leu | Val | Ser | Ser |     |     |     |     |     |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     |     |

&lt;210&gt; 13

&lt;211&gt; 531

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3500375CD1

&lt;400&gt; 13

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Asp | Val | Leu | Ser | Val | Leu | Arg | Gln | Tyr | Asn | Ile | Gln | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Lys | Glu | Ile | Val | Val | Lys | Gly | Asp | Glu | Val | Ile | Phe | Gly | Glu | Phe |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Ser | Trp | Pro | Lys | Asn | Val | Lys | Thr | Asn | Tyr | Val | Val | Trp | Gly | Thr |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Gly | Lys | Glu | Gly | Gln | Pro | Arg | Glu | Tyr | Tyr | Thr | Leu | Asp | Ser | Ile |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Leu | Phe | Leu | Leu | Asn | Asn | Val | His | Leu | Ser | His | Pro | Val | Tyr | Val |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Arg | Arg | Ala | Ala | Thr | Glu | Asn | Ile | Pro | Val | Val | Arg | Arg | Pro | Asp |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Arg | Lys | Asp | Leu | Leu | Gly | Tyr | Leu | Asn | Gly | Glu | Ala | Ser | Thr | Ser |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Ile | Asp | Arg | Ser | Ala | Pro | Leu | Glu | Ile | Gly | Leu | Gln | Arg | 105 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 100 |
| Ser | Thr | Gln | Val | Lys | Arg | Ala | Ala | Asp | Glu | Val | Leu | Ala | Glu | Ala | 115 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 110 |
| Lys | Lys | Pro | Arg | Ile | Glu | Asp | Glu | Glu | Cys | Val | Arg | Leu | Asp | Lys | 130 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 125 |
| Glu | Arg | Leu | Ala | Ala | Arg | Leu | Glu | Gly | His | Lys | Glu | Gly | Ile | Val | 145 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 140 |
| Gln | Thr | Glu | Gln | Ile | Arg | Ser | Leu | Ser | Glu | Ala | Met | Ser | Val | Glu | 160 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 155 |
| Lys | Ile | Ala | Ala | Ile | Lys | Ala | Lys | Ile | Met | Ala | Lys | Lys | Arg | Ser | 175 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 170 |
| Thr | Ile | Lys | Thr | Asp | Leu | Asp | Asp | Asp | Ile | Thr | Ala | Leu | Lys | Gln | 190 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 185 |
| Arg | Ser | Phe | Val | Asp | Ala | Glu | Val | Asp | Val | Thr | Arg | Asp | Ile | Val | 205 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 200 |
| Ser | Arg | Glu | Arg | Val | Trp | Arg | Thr | Arg | Thr | Thr | Ile | Leu | Gln | Ser | 220 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 215 |
| Thr | Gly | Lys | Asn | Phe | Ser | Lys | Asn | Ile | Phe | Ala | Ile | Leu | Gln | Ser | 235 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 230 |
| Val | Lys | Ala | Arg | Glu | Glu | Gly | Arg | Ala | Pro | Glu | Gln | Arg | Pro | Ala | 250 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 245 |
| Pro | Asn | Ala | Ala | Pro | Val | Asp | Pro | Thr | Leu | Arg | Thr | Lys | Gln | Pro | 265 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 260 |
| Ile | Pro | Ala | Ala | Tyr | Asn | Arg | Tyr | Asp | Gln | Glu | Arg | Phe | Lys | Gly | 280 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 275 |
| Lys | Glu | Glu | Thr | Glu | Gly | Phe | Lys | Ile | Asp | Thr | Met | Gly | Thr | Tyr | 295 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 290 |
| His | Gly | Met | Thr | Leu | Lys | Ser | Val | Thr | Glu | Gly | Ala | Ser | Ala | Arg | 310 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 305 |
| Lys | Thr | Gln | Thr | Pro | Ala | Ala | Gln | Pro | Val | Pro | Arg | Pro | Val | Ser | 325 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 320 |
| Gln | Ala | Arg | Pro | Pro | Pro | Asn | Gln | Lys | Lys | Gly | Ser | Arg | Thr | Pro | 340 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 335 |
| Ile | Ile | Ile | Ile | Pro | Ala | Ala | Thr | Thr | Ser | Leu | Ile | Thr | Met | Leu | 355 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 350 |
| Asn | Ala | Lys | Asp | Leu | Leu | Gln | Asp | Leu | Lys | Phe | Val | Pro | Ser | Asp | 370 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 365 |
| Glu | Lys | Lys | Lys | Gln | Gly | Cys | Gln | Arg | Glu | Asn | Glu | Thr | Leu | Ile | 385 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 380 |
| Gln | Arg | Arg | Lys | Asp | Gln | Met | Gln | Pro | Gly | Gly | Thr | Ala | Ile | Ser | 400 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 395 |
| Val | Thr | Val | Pro | Tyr | Arg | Val | Val | Asp | Gln | Pro | Leu | Lys | Leu | Met | 415 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 410 |
| Pro | Gln | Asp | Trp | Asp | Arg | Val | Val | Ala | Val | Phe | Val | Gln | Gly | Pro | 430 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 425 |
| Ala | Trp | Gln | Phe | Lys | Gly | Trp | Pro | Trp | Leu | Leu | Pro | Asp | Gly | Ser | 445 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 440 |
| Pro | Val | Asp | Ile | Phe | Ala | Lys | Ile | Lys | Ala | Phe | His | Leu | Lys | Tyr | 460 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 455 |
| Asp | Glu | Val | Arg | Leu | Asp | Pro | Asn | Val | Gln | Lys | Trp | Asp | Val | Thr | 475 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 470 |
| Val | Leu | Glu | Leu | Ser | Tyr | His | Lys | Arg | His | Leu | Asp | Arg | Pro | Val | 490 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 485 |
| Phe | Leu | Arg | Phe | Trp | Glu | Thr | Leu | Asp | Arg | Tyr | Met | Val | Lys | His | 505 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 500 |
| Lys | Ser | His | Leu | Arg | Phe |     |     |     |     |     |     |     |     |     | 520 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 515 |

&lt;210&gt; 14

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 5080410CD1

<400> 14

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ser | Met | Arg | Glu | Ser | Asp | Thr | Gly | Leu | Trp | Leu | His | Asn |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Lys | Leu | Gly | Ala | Thr | Asp | Glu | Leu | Trp | Ala | Pro | Pro | Ser | Ile | Ala |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Ser | Leu | Leu | Thr | Ala | Ala | Val | Ile | Asp | Asn | Ile | Arg | Leu | Cys | Phe |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| His | Gly | Leu | Ser | Ser | Ala | Val | Lys | Leu | Lys | Leu | Leu | Leu | Gly | Thr |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Leu | His | Leu | Pro | Arg | Arg | Thr | Val | Asp | Glu | His | Pro | Ile | Leu | Pro |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Met | Lys | Gly | Ala | Leu | Met | Glu | Ile | Ile | Gln | Leu | Ala | Ser | Leu | Asp |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Ser | Asp | Pro | Trp | Val | Leu | Met | Val | Ala | Asp | Ile | Leu | Lys | Ser | Phe |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Pro | Asp | Thr | Gly | Ser | Leu | Asn | Leu | Glu | Leu | Glu | Glu | Gln | Asn | Pro |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Asn | Val | Gln | Asp | Ile | Leu | Gly | Glu | Leu | Arg | Glu | Lys | Val | Gly | Glu |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Cys | Glu | Ala | Ser | Ala | Met | Leu | Pro | Leu | Glu | Cys | Gln | Tyr | Leu | Asn |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Lys | Asn | Ala | Ala | Asp | Asp | Pro | Arg | Gly | Thr | Pro | His | Ser | Pro | Gly |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |

<210> 15  
 <211> 199  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 5218248CD1

<400> 15

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Asn | Met | Glu | Lys | His | Leu | Phe | Asn | Leu | Lys | Phe | Ala | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Lys | Glu | Leu | Ser | Arg | Ser | Ala | Lys | Lys | Cys | Asp | Lys | Glu | Glu | Lys |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Ala | Glu | Lys | Ala | Lys | Ile | Lys | Lys | Ala | Ile | Gln | Lys | Gly | Asn | Met |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Glu | Val | Ala | Arg | Ile | His | Ala | Glu | Asn | Ala | Ile | Arg | Gln | Lys | Asn |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Gln | Ala | Val | Asn | Phe | Leu | Arg | Met | Ser | Ala | Arg | Val | Asp | Ala | Val |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Ala | Ala | Arg | Val | Gln | Thr | Ala | Val | Thr | Met | Gly | Lys | Val | Thr | Lys |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Ser | Met | Ala | Gly | Val | Val | Lys | Ser | Met | Asp | Ala | Thr | Leu | Lys | Thr |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Met | Asn | Leu | Glu | Lys | Ile | Ser | Ala | Leu | Met | Asp | Lys | Phe | Glu | His |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Gln | Phe | Glu | Thr | Leu | Asp | Val | Gln | Thr | Gln | Gln | Met | Glu | Asp | Thr |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Met | Ser | Ser | Thr | Thr | Thr | Leu | Thr | Thr | Pro | Gln | Asn | Gln | Val | Asp |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Met | Leu | Leu | Gln | Glu | Met | Ala | Asp | Glu | Ala | Gly | Leu | Asp | Leu | Asn |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Met | Glu | Leu | Pro | Gln | Gly | Gln | Thr | Gly | Ser | Val | Gly | Thr | Ser | Val |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ala | Ser | Ala | Glu | Gln | Asp | Glu | Leu | Ser | Gln | Arg | Leu | Ala | Arg | Leu |

185 190 195

Arg Asp Gln Val

<210> 16  
 <211> 168  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 058336CD1

<400> 16

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Phe | Asn | Asp | Cys | Phe | Ser | Leu | Asn | Tyr | Pro | Gly | Asn | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Cys | Pro | Gly | Asp | Leu | Ile | Glu | Val | Phe | Arg | Pro | Gly | Tyr | Gln | His |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Trp | Ala | Leu | Tyr | Leu | Gly | Asp | Gly | Tyr | Val | Ile | Asn | Ile | Ala | Pro |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Val | Asp | Gly | Ile | Pro | Ala | Ser | Phe | Thr | Ser | Ala | Lys | Ser | Val | Phe |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Ser | Ser | Lys | Ala | Leu | Val | Lys | Met | Gln | Leu | Leu | Lys | Asp | Val | Val |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Gly | Asn | Asp | Thr | Tyr | Arg | Ile | Asn | Asn | Lys | Tyr | Asp | Glu | Thr | Tyr |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Pro | Pro | Leu | Pro | Val | Glu | Glu | Ile | Ile | Lys | Arg | Ser | Glu | Phe | Val |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Ile | Gly | Gln | Glu | Val | Ala | Tyr | Asn | Leu | Leu | Val | Asn | Asn | Cys | Glu |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| His | Phe | Val | Thr | Leu | Leu | Arg | Tyr | Gly | Glu | Gly | Val | Ser | Glu | Gln |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Ala | Asn | Arg | Ala | Ile | Ser | Thr | Val | Glu | Phe | Val | Thr | Ala | Ala | Val |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Gly | Val | Phe | Ser | Phe | Leu | Gly | Leu | Phe | Pro | Lys | Gly | Gln | Arg | Ala |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |

Lys Tyr Tyr

<210> 17  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1511488CD1

<400> 17

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Arg | Ala | Val | Gly | Ser | Leu | Leu | Arg | Leu | Gly | Arg | Gly | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Thr | Val | Arg | Cys | Gly | Pro | Gly | Ala | Pro | Leu | Glu | Ala | Thr | Arg | Arg |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Pro | Ala | Pro | Ala | Leu | Pro | Pro | Arg | Gly | Leu | Pro | Cys | Tyr | Ser | Ser |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Gly | Gly | Ala | Pro | Ser | Asn | Ser | Gly | Pro | Gln | Gly | His | Gly | Glu | Ile |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| His | Arg | Val | Pro | Thr | Gln | Arg | Arg | Pro | Ser | Gln | Phe | Asp | Lys | Lys |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Ile | Leu | Leu | Trp | Thr | Gly | Arg | Phe | Lys | Ser | Met | Glu | Glu | Ile | Pro |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Pro | Arg | Ile | Pro | Pro | Glu | Met | Ile | Asp | Thr | Ala | Arg | Asn | Lys | Ala |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Arg | Val | Lys | Ala | Cys | Tyr | Ile | Met | Ile | Gly | Leu | Thr | Ile | Ile | Ala |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Phe | Ala | Val | Ile | Val | Ser | Ala | Lys | Arg | Ala | Val | Glu | Arg | His |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Glu | Ser | Leu | Thr | Ser | Trp | Asn | Leu | Ala | Lys | Lys | Ala | Lys | Trp | Arg |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Glu | Glu | Ala | Ala | Leu | Ala | Ala | Gln | Ala | Lys | Ala | Lys |     |     |     |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     |     |

&lt;210&gt; 18

&lt;211&gt; 246

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1638819CD1

&lt;400&gt; 18

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Gly | Tyr | Leu | Lys | Leu | Val | Cys | Val | Ser | Phe | Gln | Arg | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Gly | Phe | His | Thr | Val | Gly | Ser | Arg | Cys | Lys | Asn | Arg | Thr | Gly | Ala |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Glu | His | Leu | Trp | Leu | Thr | Arg | His | Leu | Arg | Asp | Pro | Phe | Val | Lys |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ala | Ala | Lys | Val | Glu | Ser | Tyr | Arg | Cys | Arg | Ser | Ala | Phe | Lys | Leu |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Leu | Glu | Val | Asn | Glu | Arg | His | Gln | Ile | Leu | Arg | Pro | Gly | Leu | Arg |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Val | Leu | Asp | Cys | Gly | Ala | Ala | Pro | Gly | Ala | Trp | Ser | Gln | Val | Ala |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Val | Gln | Lys | Val | Asn | Ala | Ala | Gly | Thr | Asp | Pro | Ser | Ser | Pro | Val |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Gly | Phe | Val | Leu | Gly | Val | Asp | Leu | Leu | His | Ile | Phe | Pro | Leu | Glu |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Gly | Ala | Thr | Phe | Leu | Cys | Pro | Ala | Asp | Val | Thr | Asp | Pro | Arg | Thr |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Ser | Gln | Arg | Ile | Leu | Glu | Val | Leu | Pro | Gly | Arg | Arg | Ala | Asp | Val |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Ile | Leu | Ser | Asp | Met | Ala | Pro | Asn | Ala | Thr | Gly | Phe | Arg | Asp | Leu |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Asp | His | Asp | Arg | Leu | Ile | Ser | Leu | Cys | Leu | Thr | Leu | Leu | Ser | Val |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Thr | Pro | Asp | Ile | Leu | Gln | Pro | Gly | Gly | Thr | Phe | Leu | Cys | Lys | Thr |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Trp | Ala | Gly | Ser | Gln | Ser | Arg | Arg | Leu | Gln | Arg | Arg | Leu | Thr | Glu |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Glu | Phe | Gln | Asn | Val | Arg | Ile | Ile | Lys | Pro | Glu | Ala | Ser | Arg | Lys |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Glu | Ser | Ser | Glu | Val | Tyr | Phe | Leu | Ala | Thr | Gln | Tyr | His | Gly | Arg |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Lys | Gly | Thr | Val | Lys | Gln |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 245 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 19

&lt;211&gt; 483

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1655123CD1

&lt;400&gt; 19

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Glu | Gly | Gly | Gly | Gly | Val | Arg | Ser | Leu | Val | Pro | Gly | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Pro | Val | Leu | Leu | Val | Leu | Cys | Gly | Leu | Leu | Glu | Ala | Ser | Gly | Gly |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Gly | Arg | Ala | Leu | Pro | Gln | Leu | Ser | Asp | Asp | Ile | Pro | Phe | Arg | Val |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Asn | Trp | Pro | Gly | Thr | Glu | Phe | Ser | Leu | Pro | Thr | Thr | Gly | Val | Leu |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Tyr | Lys | Glu | Asp | Asn | Tyr | Val | Ile | Met | Thr | Thr | Ala | His | Lys | Glu |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Lys | Tyr | Lys | Cys | Ile | Leu | Pro | Leu | Val | Thr | Ser | Gly | Asp | Glu | Glu |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Glu | Glu | Lys | Asp | Tyr | Lys | Gly | Pro | Asn | Pro | Arg | Glu | Leu | Leu | Glu |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Pro | Leu | Phe | Lys | Gln | Ser | Ser | Cys | Ser | Tyr | Arg | Ile | Glu | Ser | Tyr |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Trp | Thr | Tyr | Glu | Val | Cys | His | Gly | Lys | His | Ile | Arg | Gln | Tyr | His |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Glu | Glu | Lys | Glu | Thr | Gly | Gln | Lys | Ile | Asn | Ile | His | Glu | Tyr | Tyr |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Leu | Gly | Asn | Met | Leu | Ala | Lys | Asn | Leu | Leu | Phe | Glu | Lys | Glu | Arg |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Glu | Ala | Glu | Glu | Lys | Glu | Lys | Ser | Asn | Glu | Ile | Pro | Thr | Lys | Asn |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ile | Glu | Gly | Gln | Met | Thr | Pro | Tyr | Tyr | Pro | Val | Gly | Met | Gly | Asn |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Gly | Thr | Pro | Cys | Ser | Leu | Lys | Gln | Asn | Arg | Pro | Arg | Ser | Ser | Thr |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Val | Met | Tyr | Ile | Cys | His | Pro | Glu | Ser | Lys | His | Glu | Ile | Leu | Ser |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Val | Ala | Glu | Val | Thr | Thr | Cys | Glu | Tyr | Glu | Val | Val | Ile | Leu | Thr |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Pro | Leu | Leu | Cys | Ser | His | Pro | Lys | Tyr | Arg | Phe | Arg | Ala | Ser | Pro |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Val | Asn | Asp | Ile | Phe | Cys | Gln | Ser | Leu | Pro | Gly | Ser | Pro | Phe | Lys |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Pro | Leu | Thr | Leu | Arg | Gln | Leu | Glu | Gln | Gln | Glu | Glu | Ile | Leu | Arg |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Val | Pro | Phe | Arg | Arg | Asn | Lys | Glu | Glu | Asp | Leu | Gln | Ser | Thr | Lys |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Glu | Glu | Arg | Phe | Pro | Ala | Ile | His | Lys | Ser | Ile | Ala | Ile | Gly | Ser |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Gln | Pro | Val | Leu | Thr | Val | Gly | Thr | Thr | His | Ile | Ser | Lys | Leu | Thr |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Asp | Asp | Gln | Leu | Ile | Lys | Glu | Phe | Leu | Ser | Gly | Ser | Tyr | Cys | Phe |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Arg | Gly | Gly | Val | Gly | Trp | Trp | Lys | Tyr | Glu | Phe | Cys | Tyr | Gly | Lys |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| His | Val | His | Gln | Tyr | His | Glu | Asp | Lys | Asp | Ser | Gly | Lys | Thr | Ser |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Val | Val | Val | Gly | Thr | Trp | Asn | Gln | Glu | Glu | His | Ile | Glu | Trp | Ala |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Lys | Lys | Asn | Thr | Ala | Arg | Ala | Tyr | His | Leu | Gln | Asp | Asp | Gly | Thr |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Gln | Thr | Val | Arg | Met | Val | Ser | His | Phe | Tyr | Gly | Asn | Gly | Asp | Ile |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Cys | Asp | Ile | Thr | Asp | Lys | Pro | Arg | Gln | Val | Thr | Val | Lys | Leu | Lys |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Cys | Lys | Glu | Ser | Asp | Ser | Pro | His | Ala | Val | Thr | Val | Tyr | Met | Leu |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Glu | Pro | His | Ser | Cys | Gln | Tyr | Ile | Leu | Gly | Val | Glu | Ser | Pro | Val |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Ile | Cys | Lys | Ile | Leu | Asp | Thr | Ala | Asp | Glu | Asn | Gly | Leu | Leu | Ser |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Leu | Pro | Asn |     |     |     |     |     |     |     |     |     |     |     |     |

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 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2553926CD1

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 Met Glu Ala Ala Glu Thr Glu Ala Glu Ala Ala Ala Leu Glu Val  
   1                  5                  10                  15  
 Leu Ala Glu Val Ala Gly Ile Leu Glu Pro Val Gly Leu Gln Glu  
                   20                  25                  30  
 Glu Ala Glu Leu Pro Ala Lys Ile Leu Val Glu Phe Val Val Asp  
                   35                  40                  45  
 Ser Gln Lys Lys Asp Lys Leu Leu Cys Ser Gln Leu Gln Val Ala  
                   50                  55                  60  
 Asp Phe Leu Gln Asn Ile Leu Ala Gln Glu Asp Thr Ala Lys Gly  
                   65                  70                  75  
 Leu Asp Pro Leu Ala Ser Glu Asp Thr Ser Arg Gln Lys Ala Ile  
                   80                  85                  90  
 Ala Ala Lys Glu Gln Trp Lys Glu Leu Lys Ala Thr Tyr Arg Glu  
                   95                  100                 105  
 His Val Glu Ala Ile Lys Ile Gly Leu Thr Lys Ala Leu Thr Gln  
                  110                 115                 120  
 Met Glu Glu Ala Gln Arg Lys Arg Thr Gln Leu Arg Glu Ala Phe  
                  125                 130                 135  
 Glu Gln Leu Gln Ala Lys Lys Gln Met Ala Met Glu Lys Arg Arg  
                  140                 145                 150  
 Ala Val Gln Asn Gln Trp Gln Leu Gln Gln Glu Lys His Leu Gln  
                  155                 160                 165  
 His Leu Ala Glu Val Ser Ala Glu Val Arg Glu Arg Lys Thr Gly  
                  170                 175                 180  
 Thr Gln Gln Glu Leu Asp Gly Val Phe Gln Lys Leu Gly Asn Leu  
                  185                 190                 195  
 Lys Gln Gln Ala Glu Gln Glu Arg Asp Lys Leu Gln Arg Tyr Gln  
                  200                 205                 210  
 Thr Phe Leu Gln Leu Leu Tyr Thr Leu Gln Gly Lys Leu Leu Phe  
                  215                 220                 225  
 Pro Glu Ala Glu Ala Glu Ala Glu Asn Leu Pro Asp Asp Lys Pro  
                  230                 235                 240  
 Gln Gln Pro Thr Arg Pro Gln Glu Gln Ser Thr Gly Asp Thr Met  
                  245                 250                 255  
 Gly Arg Asp Pro Gly Val Ser Phe Lys Phe Ser Lys Ala Val Gly  
                  260                 265                 270  
 Leu Gln Pro Ala Gly Asp Val Asn Leu Pro  
                  275                 280

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 <211> 425  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2800717CD1

<400> 21  
 Met Gly Glu Asp Ala Ala Gln Ala Glu Lys Phe Gln His Pro Gly  
   1                  5                  10                  15  
 Ser Asp Met Arg Gln Glu Lys Pro Ser Ser Pro Ser Pro Met Pro  
                   20                  25                  30  
 Ser Ser Thr Pro Ser Pro Ser Leu Asn Leu Gly Asn Thr Glu Glu

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ile | Arg | Asp | Asn | Ser | Gln | Val | Asn | Ala | Val | Thr | Val | Leu | Thr |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Leu | Leu | Asp | Lys | Leu | Val | Asn | Met | Leu | Asp | Ala | Val | Gln | Glu | Asn |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Gln | His | Lys | Met | Glu | Gln | Arg | Gln | Ile | Ser | Leu | Glu | Gly | Ser | Val |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Lys | Gly | Ile | Gln | Asn | Asp | Leu | Thr | Lys | Leu | Ser | Lys | Tyr | Gln | Ala |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Ser | Thr | Ser | Asn | Thr | Val | Ser | Lys | Leu | Leu | Glu | Lys | Ser | Arg | Lys |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Val | Ser | Ala | His | Thr | Arg | Ala | Val | Lys | Glu | Arg | Met | Asp | Arg | Gln |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Cys | Ala | Gln | Val | Lys | Arg | Leu | Glu | Asn | Asn | His | Ala | Gln | Leu | Leu |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Arg | Arg | Asn | His | Phe | Lys | Val | Leu | Ile | Phe | Gln | Glu | Glu | Asn | Glu |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Ile | Pro | Ala | Ser | Val | Phe | Val | Lys | Gln | Pro | Val | Ser | Gly | Ala | Val |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Glu | Gly | Lys | Glu | Glu | Leu | Pro | Asp | Glu | Asn | Lys | Ser | Leu | Glu | Glu |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Thr | Leu | His | Thr | Val | Asp | Leu | Ser | Ser | Asp | Asp | Asp | Leu | Pro | His |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Asp | Glu | Glu | Ala | Leu | Glu | Asp | Ser | Ala | Glu | Glu | Lys | Val | Glu | Glu |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Ser | Arg | Ala | Glu | Lys | Ile | Lys | Arg | Ser | Ser | Leu | Lys | Lys | Val | Asp |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Ser | Leu | Lys | Lys | Ala | Phe | Ser | Arg | Gln | Asn | Ile | Glu | Lys | Lys | Met |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Asn | Lys | Leu | Gly | Thr | Lys | Ile | Val | Ser | Val | Glu | Arg | Arg | Glu | Lys |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Ile | Lys | Lys | Ser | Leu | Thr | Ser | Asn | His | Gln | Lys | Ile | Ser | Ser | Gly |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Lys | Ser | Ser | Pro | Phe | Lys | Val | Ser | Pro | Leu | Thr | Phe | Gly | Arg | Lys |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Lys | Val | Arg | Glu | Gly | Glu | Ser | His | Ala | Glu | Asn | Glu | Thr | Lys | Ser |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Glu | Asp | Leu | Pro | Ser | Ser | Glu | Gln | Met | Pro | Asn | Asp | Gln | Glu | Glu |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Glu | Ser | Phe | Ala | Glu | Gly | His | Ser | Glu | Ala | Ser | Leu | Ala | Ser | Ala |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Leu | Val | Glu | Gly | Glu | Ile | Ala | Glu | Glu | Ala | Ala | Glu | Lys | Ala | Thr |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Ser | Arg | Gly | Ser | Asn | Ser | Gly | Met | Asp | Ser | Asn | Ile | Asp | Leu | Thr |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Ile | Val | Glu | Asp | Glu | Glu | Glu | Glu | Ser | Val | Ala | Leu | Glu | Gln | Ala |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Gln | Lys | Val | Arg | Tyr | Glu | Gly | Ser | Tyr | Ala | Leu | Thr | Ser | Glu | Glu |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Ala | Glu | Arg | Ser | Asp | Gly | Asp | Pro | Val | Gln | Pro | Ala | Val | Leu | Gln |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Val | His | Gln | Thr | Ser |     |     |     |     | 410 |     |     |     |     | 420 |
|     |     |     |     | 415 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 22

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5664154CD1

&lt;400&gt; 22

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Ser | Lys | Glu | Glu | Arg | Ala | Leu | Asn | Asn | Leu | Ile | Val | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Asn | Val | Asn | Gln | Glu | Asn | Asp | Glu | Lys | Asp | Glu | Lys | Glu | Gln | Val |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Ala | Asn | Lys | Gly | Glu | Pro | Leu | Ala | Leu | Pro | Leu | Asn | Val | Ser | Glu |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Tyr | Cys | Val | Pro | Arg | Gly | Asn | Arg | Arg | Arg | Phe | Arg | Val | Arg | Gln |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Pro | Ile | Leu | Gln | Tyr | Arg | Trp | Asp | Ile | Met | His | Arg | Leu | Gly | Glu |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Pro | Gln | Ala | Arg | Met | Arg | Glu | Glu | Asn | Met | Glu | Arg | Ile | Gly | Glu |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Glu | Val | Arg | Gln | Leu | Met | Glu | Lys | Leu | Arg | Glu | Lys | Gln | Leu | Ser |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| His | Ser | Leu | Arg | Ala | Val | Ser | Thr | Asp | Pro | Pro | His | His | Asp | His |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| His | Asp | Glu | Phe | Cys | Leu | Met | Pro |     |     |     |     |     |     |     |
|     |     |     |     | 125 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 23

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 017900CD1

&lt;400&gt; 23

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Gly | Arg | Val | Gln | Leu | Ile | Lys | Ala | Leu | Leu | Ala | Leu | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Ile | Arg | Pro | Ala | Thr | Arg | Arg | Trp | Arg | Asn | Pro | Ile | Pro | Phe | Pro |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Glu | Thr | Phe | Asp | Gly | Asp | Thr | Asp | Arg | Leu | Pro | Glu | Phe | Ile | Val |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Gln | Thr | Gly | Ser | Tyr | Met | Phe | Val | Asp | Glu | Asn | Thr | Phe | Ser | Ser |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Asp | Ala | Leu | Lys | Val | Thr | Phe | Leu | Ile | Thr | Arg | Leu | Thr | Gly | Pro |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Ala | Leu | Gln | Trp | Val | Ile | Pro | Tyr | Ile | Lys | Lys | Glu | Ser | Pro | Leu |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Leu | Asn | Asp | Tyr | Arg | Gly | Phe | Leu | Ala | Glu | Met | Lys | Arg | Val | Phe |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Gly | Trp | Glu | Glu | Asp | Glu | Asp | Phe |     |     |     |     |     |     |     |
|     |     |     |     | 110 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 24

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 035102CD1

&lt;400&gt; 24

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Gln | Thr | Pro | Glu | Ser | Arg | Gly | Leu | Pro | Val | Pro | Gln | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Glu | Gly | Glu | Lys | Asp | Gly | Gly | His | Asp | Gly | Glu | Thr | Arg | Ala | Pro |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Thr | Ala | Ser | Gln | Glu | Arg | Pro | Lys | Glu | Glu | Leu | Gly | Ala | Gly | Arg |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Glu | Glu | Gly | Ala | Ala | Glu | Pro | Ala | Leu | Thr | Arg | Lys | Gly | Ala | Arg |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Ala | Leu | Ala | Ala | Lys | Ser | Leu | Ala | Arg | Arg | Arg | Ala | Tyr | Arg | Arg |

|                     |   |     |
|---------------------|---|-----|
| 65                  | 70                                      | 75  |
| Leu Asn Arg Thr Val | Ala Glu Leu Val Gln Phe Leu Leu Val Lys |     |
| 80                  | 85                                      | 90  |
| Asp Lys Lys Lys Ser | Pro Ile Thr Arg Ser Glu Met Val Lys Tyr |     |
| 95                  | 100                                     | 105 |
| Val Ile Gly Asp Leu | Lys Ile Leu Phe Pro Asp Ile Ile Ala Arg |     |
| 110                 | 115                                     | 120 |
| Ala Ala Glu His Leu | Arg Tyr Val Phe Gly Phe Glu Leu Lys Gln |     |
| 125                 | 130                                     | 135 |
| Phe Asp Arg Lys His | His Thr Tyr Ile Leu Ile Asn Lys Leu Lys |     |
| 140                 | 145                                     | 150 |
| Pro Leu Glu Glu Glu | Glu Glu Glu Glu Asp Leu Gly Gly Asp Gly |     |
| 155                 | 160                                     | 165 |
| Pro Arg Leu Gly Leu | Leu Met Met Ile Leu Gly Leu Ile Tyr Met |     |
| 170                 | 175                                     | 180 |
| Arg Gly Asn Ser Ala | Arg Glu Ala Gln Val Trp Glu Met Leu Arg |     |
| 185                 | 190                                     | 195 |
| Arg Leu Gly Val Gln | Pro Ser Lys Tyr His Phe Leu Phe Gly Tyr |     |
| 200                 | 205                                     | 210 |
| Pro Lys Arg Leu Ile | Met Glu Asp Phe Val Gln Gln Arg Tyr Leu |     |
| 215                 | 220                                     | 225 |
| Ser Tyr Arg Arg Val | Pro His Thr Asn Pro Pro Ala Tyr Glu Phe |     |
| 230                 | 235                                     | 240 |
| Ser Trp Gly Pro Arg | Ser Asn Leu Glu Ile Ser Lys Met Glu Val |     |
| 245                 | 250                                     | 255 |
| Leu Gly Phe Val Ala | Lys Leu His Lys Lys Glu Pro Gln His Trp |     |
| 260                 | 265                                     | 270 |
| Pro Val Gln Tyr Arg | Glu Ala Leu Ala Asp Glu Ala Asp Arg Ala |     |
| 275                 | 280                                     | 285 |
| Arg Ala Lys Ala Arg | Ala Glu Ala Ser Met Arg Ala Arg Ala Ser |     |
| 290                 | 295                                     | 300 |
| Ala Arg Ala Gly Ile | His Leu Trp                             |     |
| 305                 |   |     |

&lt;210&gt; 25

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 259983CD1

&lt;400&gt; 25

|                     |   |     |
|---------------------|---|-----|
| Met Phe Gly Phe His | Lys Pro Lys Met Tyr Arg Ser Ile Glu Gly |     |
| 1                   | 5                                       | 10  |
| Cys Cys Ile Cys Arg | Ala Lys Ser Ser Ser Ser Arg Phe Thr Asp |     |
| 20                  | 25                                      | 30  |
| Ser Lys Arg Tyr Glu | Lys Asp Phe Gln Ser Cys Phe Gly Leu His |     |
| 35                  | 40                                      | 45  |
| Glu Thr Arg Ser Gly | Asp Ile Cys Asn Ala Cys Val Leu Leu Val |     |
| 50                  | 55                                      | 60  |
| Lys Arg Trp Lys Lys | Leu Pro Ala Gly Ser Lys Lys Asn Trp Asn |     |
| 65                  | 70                                      | 75  |
| His Val Val Asp Ala | Arg Ala Gly Pro Ser Leu Lys Thr Thr Leu |     |
| 80                  | 85                                      | 90  |
| Lys Pro Lys Lys Val | Lys Thr Leu Ser Gly Asn Arg Ile Lys Ser |     |
| 95                  | 100                                     | 105 |
| Asn Gln Ile Ser Lys | Leu Gln Lys Glu Phe Lys Arg His Asn Ser |     |
| 110                 | 115                                     | 120 |
| Asp Ala His Ser Thr | Thr Ser Ser Ala Ser Pro Ala Gln Ser Pro |     |
| 125                 | 130                                     | 135 |
| Cys Tyr Ser Asn Gln | Ser Asp Asp Gly Ser Asp Thr Glu Met Ala |     |
| 140                 | 145                                     | 150 |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ser | Asn | Arg | Thr | Pro | Val | Phe | Ser | Phe | Leu | Asp | Leu | Thr |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Tyr | Trp | Lys | Arg | Gln | Lys | Ile | Cys | Cys | Gly | Ile | Ile | Tyr | Lys | Gly |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Arg | Phe | Gly | Glu | Val | Leu | Ile | Asp | Thr | His | Leu | Phe | Lys | Pro | Cys |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Cys | Ser | Asn | Lys | Lys | Ala | Ala | Ala | Glu | Lys | Pro | Glu | Glu | Gln | Gly |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Pro | Glu | Pro | Leu | Pro | Ile | Ser | Thr | Gln | Glu | Trp |     |     |     |     |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |     |

&lt;210&gt; 26

&lt;211&gt; 402

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 926810CD1

&lt;400&gt; 26

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ser | Ile | Ile | Ala | Arg | Val | Gly | Asn | Ser | Arg | Arg | Leu | Asn |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Ala | Pro | Leu | Pro | Pro | Trp | Ala | His | Ser | Met | Leu | Arg | Ser | Leu | Gly |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Arg | Ser | Leu | Gly | Pro | Ile | Met | Ala | Ser | Met | Ala | Asp | Arg | Asn | Met |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Lys | Leu | Phe | Ser | Gly | Arg | Val | Val | Pro | Ala | Gln | Gly | Glu | Glu | Thr |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Phe | Glu | Asn | Trp | Leu | Thr | Gln | Val | Asn | Gly | Val | Leu | Pro | Asp | Trp |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Asn | Met | Ser | Glu | Glu | Glu | Lys | Leu | Lys | Arg | Leu | Met | Lys | Thr | Leu |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Arg | Gly | Pro | Ala | Arg | Glu | Val | Met | Arg | Val | Leu | Gln | Ala | Thr | Asn |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Pro | Asn | Leu | Ser | Val | Ala | Asp | Phe | Leu | Arg | Ala | Met | Lys | Leu | Val |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Phe | Gly | Glu | Ser | Glu | Ser | Ser | Val | Thr | Ala | His | Gly | Lys | Phe | Phe |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Asn | Thr | Leu | Gln | Ala | Gln | Gly | Glu | Lys | Ala | Ser | Leu | Tyr | Val | Ile |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Arg | Leu | Glu | Val | Gln | Leu | Gln | Asn | Ala | Ile | Gln | Ala | Gly | Ile | Ile |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Ala | Glu | Lys | Asp | Ala | Asn | Arg | Thr | Arg | Leu | Gln | Gln | Leu | Leu | Leu |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Gly | Gly | Glu | Leu | Ser | Arg | Asp | Leu | Arg | Leu | Arg | Leu | Lys | Asp | Phe |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Leu | Arg | Met | Tyr | Ala | Asn | Glu | Gln | Glu | Arg | Leu | Pro | Asn | Phe | Leu |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Glu | Leu | Ile | Arg | Met | Val | Arg | Glu | Glu | Glu | Asp | Trp | Asp | Asp | Ala |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Phe | Ile | Lys | Arg | Lys | Arg | Pro | Lys | Arg | Ser | Glu | Ser | Met | Val | Glu |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Arg | Ala | Val | Ser | Pro | Val | Ala | Phe | Gln | Gly | Ser | Pro | Pro | Ile | Val |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Ile | Gly | Ser | Ala | Asp | Cys | Asn | Val | Ile | Glu | Ile | Asp | Asp | Thr | Leu |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Asp | Asp | Ser | Asp | Glu | Asp | Val | Ile | Leu | Val | Glu | Ser | Gln | Asp | Pro |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Pro | Leu | Pro | Ser | Trp | Gly | Ala | Pro | Pro | Leu | Arg | Asp | Arg | Ala | Arg |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Pro | Gln | Asp | Glu | Val | Leu | Val | Ile | Asp | Ser | Pro | His | Asn | Ser | Arg |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Ala | Gln | Phe | Pro | Ser | Thr | Ser | Gly | Gly | Ser | Gly | Tyr | Lys | Asn | Asn |

|   |     |  |     |  |     |
|---|-----|--|-----|--|-----|
|   | 320 |  | 325 |  | 330 |
| Gly Pro Gly Glu Met Arg Arg Ala Arg Lys Arg Lys His Thr Ile |     |  |     |  |     |
|   | 335 |  | 340 |  | 345 |
| Arg Cys Ser Tyr Cys Gly Glu Glu Gly His Ser Lys Glu Thr Cys |     |  |     |  |     |
|   | 350 |  | 355 |  | 360 |
| Asp Asn Glu Ser Asp Lys Ala Gln Val Phe Glu Asn Leu Ile Ile |     |  |     |  |     |
|   | 365 |  | 370 |  | 375 |
| Thr Leu Gln Glu Leu Thr His Thr Glu Met Glu Arg Ser Arg Val |     |  |     |  |     |
|   | 380 |  | 385 |  | 390 |
| Ala Pro Gly Glu Tyr Asn Asp Phe Ser Glu Pro Leu             |     |  |     |  |     |
|   | 395 |  | 400 |  |     |

&lt;210&gt; 27

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1398816CD1

&lt;400&gt; 27

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| Met Ser Thr Asp Thr Gly Val Ser Leu Pro Ser Tyr Glu Glu Asp |  |  |  |  |  |
| 1 5 10 15   |  |  |  |  |  |
| Gln Gly Ser Lys Leu Ile Arg Lys Ala Lys Glu Ala Pro Phe Val |  |  |  |  |  |
| 20 25 30  |  |  |  |  |  |
| Pro Val Gly Ile Ala Gly Phe Ala Ala Ile Val Ala Tyr Gly Leu |  |  |  |  |  |
| 35 40 45  |  |  |  |  |  |
| Tyr Lys Leu Lys Ser Arg Gly Asn Thr Lys Met Ser Ile His Leu |  |  |  |  |  |
| 50 55 60  |  |  |  |  |  |
| Ile His Met Arg Val Ala Ala Gln Gly Phe Val Val Gly Ala Met |  |  |  |  |  |
| 65 70 75  |  |  |  |  |  |
| Thr Val Gly Met Gly Tyr Ser Met Tyr Arg Glu Phe Trp Ala Lys |  |  |  |  |  |
| 80 85 90  |  |  |  |  |  |

Pro Lys Pro

&lt;210&gt; 28

&lt;211&gt; 353

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1496820CD1

&lt;400&gt; 28

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| Met Asn Arg Glu Asp Arg Asn Val Leu Arg Met Lys Glu Arg Glu |  |  |  |  |  |
| 1 5 10 15   |  |  |  |  |  |
| Arg Arg Asn Gln Glu Ile Gln Gln Gly Glu Asp Ala Phe Pro Pro |  |  |  |  |  |
| 20 25 30  |  |  |  |  |  |
| Ser Ser Pro Leu Phe Ala Glu Pro Tyr Lys Val Thr Ser Lys Glu |  |  |  |  |  |
| 35 40 45  |  |  |  |  |  |
| Asp Lys Leu Ser Ser Arg Ile Gln Ser Met Leu Gly Asn Tyr Asp |  |  |  |  |  |
| 50 55 60  |  |  |  |  |  |
| Glu Met Lys Asp Phe Ile Gly Asp Arg Ser Ile Pro Lys Leu Val |  |  |  |  |  |
| 65 70 75  |  |  |  |  |  |
| Ala Ile Pro Lys Pro Thr Val Pro Pro Ser Ala Asp Glu Lys Ser |  |  |  |  |  |
| 80 85 90  |  |  |  |  |  |
| Asn Pro Asn Phe Phe Glu Gln Arg His Gly Gly Ser His Gln Ser |  |  |  |  |  |
| 95 100 105  |  |  |  |  |  |
| Ser Lys Trp Thr Pro Val Gly Pro Ala Pro Ser Thr Ser Gln Ser |  |  |  |  |  |
| 110 115 120   |  |  |  |  |  |
| Gln Lys Arg Ser Ser Gly Leu Gln Ser Gly His Ser Ser Gln Arg |  |  |  |  |  |
| 125 130 135   |  |  |  |  |  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ser | Ala | Gly | Ser | Ser | Ser | Gly | Thr | Asn | Ser | Ser | Gly | Gln | Arg |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| His | Asp | Arg | Glu | Ser | Tyr | Asn | Asn | Ser | Gly | Ser | Ser | Ser | Arg | Lys |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Lys | Gly | Gln | His | Gly | Ser | Glu | His | Ser | Lys | Ser | Arg | Ser | Ser | Ser |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Pro | Gly | Lys | Pro | Gln | Ala | Val | Ser | Ser | Leu | Asn | Ser | Ser | His | Ser |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Arg | Ser | His | Gly | Asn | Asp | His | His | Ser | Lys | Glu | His | Gln | Arg | Ser |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Lys | Ser | Pro | Arg | Asp | Pro | Asp | Ala | Asn | Trp | Asp | Ser | Pro | Ser | Arg |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Val | Pro | Phe | Ser | Ser | Gly | Gln | His | Ser | Thr | Gln | Ser | Phe | Pro | Pro |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Leu | Met | Ser | Lys | Ser | Asn | Ser | Met | Leu | Gln | Lys | Pro | Thr | Ala |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Tyr | Val | Arg | Pro | Met | Asp | Gly | Gln | Glu | Ser | Met | Glu | Pro | Lys | Leu |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Ser | Ser | Glu | His | Tyr | Ser | Ser | Gln | Ser | His | Gly | Asn | Ser | Met | Thr |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Glu | Leu | Lys | Pro | Ser | Ser | Lys | Ala | His | Leu | Thr | Lys | Leu | Lys | Ile |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Pro | Ser | Gln | Pro | Leu | Asp | Ala | Ser | Ala | Ser | Gly | Asp | Val | Ser | Cys |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Val | Asp | Glu | Ile | Leu | Lys | Glu | Met | Thr | His | Ser | Trp | Pro | Pro | Pro |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Leu | Thr | Ala | Ile | His | Thr | Pro | Cys | Lys | Thr | Glu | Pro | Ser | Lys | Phe |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Pro | Phe | Pro | Thr | Lys | Val | Ser | Lys |     |     |     |     |     |     |     |
|     |     |     |     | 350 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 29

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1514559CD1

&lt;400&gt; 29

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Glu | Pro | Ala | Gly | Asp | Val | Arg | Gln | Asn | Pro | Cys | Gly | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Lys | Ala | Cys | Arg | Arg | Leu | Phe | Gly | Pro | Val | Asp | Ser | Glu | Gln | Leu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Ser | Arg | Asp | Cys | Asp | Ala | Leu | Met | Ala | Gly | Cys | Ile | Gln | Glu | Ala |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Arg | Glu | Arg | Trp | Asn | Phe | Asp | Phe | Val | Thr | Glu | Thr | Pro | Leu | Glu |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Gly | Asp | Phe | Ala | Trp | Glu | Arg | Val | Arg | Gly | Leu | Gly | Leu | Pro | Lys |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Leu | Tyr | Leu | Pro | Thr | Trp | Ser | Ala | Gly | Trp | Tyr | Pro | Leu | Glu | Gly |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Cys | Gly | Ser | Phe | Pro | Ser | Leu | Ser | Gln | Ala | Val | Met | Lys | Phe | Thr |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Pro | Phe | Pro | Gly | His | Ser | Asp | Leu | Asn | Ser | Phe | Ser | Phe | Glu | Lys |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |

&lt;210&gt; 30

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1620092CD1

&lt;400&gt; 30

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Arg | Ser | Cys | Phe | Arg | Leu | Cys | Glu | Arg | Asp | Val | Ser | Ser | Ser | 1   | 5   | 10  | 15  |
| Leu | Arg | Leu | Thr | Arg | Ser | Ser | Asp | Leu | Lys | Arg | Ile | Asn | Gly | Phe | 20  | 25  | 30  | 35  |
| Cys | Thr | Lys | Pro | Gln | Glu | Ser | Pro | Gly | Ala | Pro | Ser | Arg | Thr | Tyr | 40  | 45  | 50  | 55  |
| Asn | Arg | Val | Pro | Leu | His | Lys | Pro | Thr | Asp | Trp | Gln | Lys | Lys | Ile | 60  | 65  | 70  | 75  |
| Leu | Ile | Trp | Ser | Gly | Arg | Phe | Lys | Lys | Glu | Asp | Glu | Ile | Pro | Glu | 80  | 85  | 90  | 95  |
| Thr | Val | Ser | Leu | Glu | Met | Leu | Asp | Ala | Ala | Lys | Asn | Lys | Met | Arg | 100 | 105 | 110 | 115 |
| Val | Lys | Ile | Ser | Tyr | Leu | Met | Ile | Ala | Leu | Thr | Val | Val | Gly | Cys | 120 | 125 | 130 | 135 |
| Ile | Phe | Met | Val | Ile | Glu | Gly | Lys | Lys | Ala | Ala | Gln | Arg | His | Glu | 140 |     |     |     |
| Thr | Leu | Thr | Ser | Leu | Asn | Leu | Glu | Lys | Lys | Ala | Arg | Leu | Lys | Glu |     |     |     |     |
| Glu | Ala | Ala | Met | Lys | Ala | Lys | Thr | Glu |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 31

&lt;211&gt; 933

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1678765CD1

&lt;400&gt; 31

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | Tyr | Leu | Glu | Asp | Asp | Lys | Glu | Asp | Glu | Val | Val | Cys | Lys | 1   | 5   | 10  | 15  |
| Gly | Ser | Leu | Ser | Lys | Thr | Gln | Asp | Val | Tyr | His | Asp | Lys | Ser | Pro | 20  | 25  | 30  | 35  |
| Pro | Gly | Ile | Leu | Ser | Gln | Thr | Met | Asn | Tyr | Val | Gly | Gln | Leu | Ala | 40  | 45  | 50  | 55  |
| Gly | Gln | Val | Ile | Val | Thr | Val | Lys | Glu | Leu | Tyr | Lys | Gly | Ile | Asn | 60  | 65  | 70  | 75  |
| Gln | Ala | Thr | Leu | Ser | Gly | Cys | Ile | Asp | Val | Ile | Val | Val | Gln | Gln | 80  | 85  | 90  | 95  |
| Gln | Asp | Gly | Ser | Tyr | Gln | Cys | Ser | Pro | Phe | His | Val | Arg | Phe | Gly | 100 | 105 | 110 | 115 |
| Lys | Leu | Gly | Val | Leu | Arg | Ser | Lys | Glu | Lys | Val | Ile | Asp | Ile | Glu | 120 | 125 | 130 | 135 |
| Ile | Asn | Gly | Ser | Ala | Val | Asp | Leu | His | Met | Lys | Leu | Gly | Asp | Asn | 140 | 145 | 150 | 155 |
| Gly | Glu | Ala | Phe | Phe | Val | Glu | Glu | Thr | Glu | Glu | Glu | Tyr | Glu | Lys | 160 | 165 | 170 | 175 |
| Leu | Pro | Ala | Tyr | Leu | Ala | Thr | Ser | Pro | Ile | Pro | Thr | Glu | Asp | Gln | 180 | 185 | 190 | 195 |
| Phe | Phe | Lys | Asp | Ile | Asp | Thr | Pro | Leu | Val | Lys | Ser | Gly | Gly | Asp | 200 | 205 | 210 | 215 |
| Glu | Thr | Pro | Ser | Gln | Ser | Ser | Asp | Ile | Ser | His | Val | Leu | Glu | Thr | 220 | 225 | 230 | 235 |
| Glu | Thr | Ile | Phe | Thr | Pro | Ser | Ser | Val | Lys | Lys | Lys | Lys | Arg | Arg | 240 | 245 | 250 | 255 |
| Arg | Lys | Lys | Tyr | Lys | Gln | Asp | Ser | Lys | Lys | Glu | Glu | Gln | Ala | Ala | 260 | 265 | 270 | 275 |
| Ser | Ala | Ala | Ala | Glu | Asp | Thr | Cys | Asp | Val | Gly | Val | Ser | Ser | Asp | 280 | 285 | 290 | 295 |

|                 |     |                     |     |                     |     |
|-----------------|-----|---------------------|-----|---------------------|-----|
| Asp Asp Lys Gly | 215 | Ala Gln Ala Ala Arg | 220 | Gly Ser Ser Asn Ala | 225 |
| Leu Lys Glu Glu | 230 | Glu Cys Lys Glu Pro | 235 | Leu Leu Phe His Ser | 240 |
| Asp His Tyr Pro | 245 | Leu Ser Asp Gly Asp | 250 | Trp Ser Pro Leu Glu | 255 |
| Thr Tyr Pro Gln | 260 | Thr Ala Cys Pro Lys | 265 | Ser Asp Ser Glu Leu | 270 |
| Val Lys Pro Ala | 275 | Glu Ser Leu Leu Arg | 280 | Ser Glu Tyr His Met | 285 |
| Trp Thr Trp Gly | 290 | Gly Phe Pro Glu Ser | 295 | Thr Lys Val Ser Lys | 300 |
| Glu Arg Ser Asp | 305 | His His Pro Arg Thr | 310 | Ala Thr Ile Thr Pro | 315 |
| Glu Asn Thr His | 320 | Phe Arg Val Ile Pro | 325 | Ser Glu Asp Asn Leu | 330 |
| Ser Glu Val Glu | 335 | Lys Asp Ala Ser Met | 340 | Glu Asp Thr Val Cys | 345 |
| Ile Val Lys Pro | 350 | Lys Pro Arg Ala Leu | 355 | Gly Thr Gln Met Ser | 360 |
| Pro Thr Ser Val | 365 | Ala Glu Leu Leu Glu | 370 | Pro Pro Leu Glu Ser | 375 |
| Gln Ile Ser Ser | 380 | Met Leu Asp Ala Asp | 385 | His Leu Pro Asn Ala | 390 |
| Leu Ala Glu Ala | 395 | Pro Ser Glu Ser Lys | 400 | Pro Ala Ala Lys Val | 405 |
| Ser Pro Ser Lys | 410 | Lys Lys Gly Val His | 415 | Lys Arg Ile Gln His | 420 |
| Gly Pro Asp Asp | 425 | Ile Tyr Leu Asp Asp | 430 | Leu Lys Gly Leu Glu | 435 |
| Glu Val Ala Ala | 440 | Leu Tyr Phe Pro Lys | 445 | Ser Glu Ser Glu Pro | 450 |
| Ser Arg Gln Trp | 455 | Pro Glu Ser Asp Thr | 460 | Leu Ser Gly Ser Gln | 465 |
| Pro Gln Ser Val | 470 | Gly Ser Ala Ala Ala | 475 | Asp Ser Gly Thr Glu | 480 |
| Leu Ser Asp Ser | 485 | Ala Met Asp Leu Pro | 490 | Asp Val Thr Leu Ser | 495 |
| Cys Gly Gly Leu | 500 | Ser Glu Asn Gly Lys | 505 | Ile Ser Lys Glu Lys | 510 |
| Met Glu His Ile | 515 | Ile Thr Tyr His Glu | 520 | Phe Ala Glu Asn Pro | 525 |
| Leu Ile Asp Asn | 530 | Pro Asn Leu Val Ile | 535 | Arg Ile Tyr Asn Arg | 540 |
| Tyr Asn Trp Ala | 545 | Leu Ala Ala Pro Met | 550 | Ile Leu Ser Leu Gln | 555 |
| Phe Gln Lys Ser | 560 | Leu Pro Lys Ala Thr | 565 | Val Glu Ser Trp Val | 570 |
| Asp Lys Met Pro | 575 | Lys Lys Ser Gly Arg | 580 | Trp Trp Phe Trp Arg | 585 |
| Arg Glu Ser Met | 590 | Thr Lys Gln Leu Pro | 595 | Glu Ser Lys Glu Gly | 600 |
| Ser Glu Ala Pro | 605 | Pro Ala Ser Asp Leu | 610 | Pro Ser Ser Ser Lys | 615 |
| Pro Ala Gly Ala | 620 | Arg Pro Ala Glu Asn | 625 | Asp Ser Ser Ser Asp | 630 |
| Gly Ser Gln Glu | 635 | Leu Glu Glu Ser Ile | 640 | Thr Val Asp Pro Ile | 645 |
| Thr Glu Pro Leu | 650 | Ser His Gly Ser Thr | 655 | Thr Ser Tyr Lys Lys | 660 |
| Leu Arg Leu Ser | 665 | Ser Asp Gln Ile Ala | 670 | Lys Leu Lys Leu His | 675 |
|                 | 680 |                     | 685 |                     | 690 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Asn | Asp | Val | Val | Phe | Ser | Ile | Thr | Thr | Gln | Tyr | Gln | Gly |
|     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     | 705 |
| Thr | Cys | Arg | Cys | Ala | Gly | Thr | Ile | Tyr | Leu | Trp | Asn | Trp | Asn | Asp |
|     |     |     |     | 710 |     |     |     |     | 715 |     |     |     |     | 720 |
| Lys | Ile | Ile | Ile | Ser | Asp | Ile | Asp | Gly | Thr | Ile | Thr | Lys | Ser | Asp |
|     |     |     |     | 725 |     |     |     |     | 730 |     |     |     |     | 735 |
| Ala | Leu | Gly | Gln | Ile | Leu | Pro | Gln | Leu | Gly | Lys | Asp | Trp | Thr | His |
|     |     |     |     | 740 |     |     |     |     | 745 |     |     |     |     | 750 |
| Gln | Gly | Ile | Ala | Lys | Leu | Tyr | His | Ser | Ile | Asn | Glu | Asn | Gly | Tyr |
|     |     |     |     | 755 |     |     |     |     | 760 |     |     |     |     | 765 |
| Lys | Phe | Leu | Tyr | Cys | Ser | Ala | Arg | Ala | Ile | Gly | Met | Ala | Asp | Met |
|     |     |     |     | 770 |     |     |     |     | 775 |     |     |     |     | 780 |
| Thr | Arg | Gly | Tyr | Leu | His | Trp | Val | Asn | Asp | Lys | Gly | Thr | Ile | Leu |
|     |     |     |     | 785 |     |     |     |     | 790 |     |     |     |     | 795 |
| Pro | Arg | Gly | Pro | Leu | Met | Leu | Ser | Pro | Ser | Ser | Leu | Phe | Ser | Ala |
|     |     |     |     | 800 |     |     |     |     | 805 |     |     |     |     | 810 |
| Phe | His | Arg | Glu | Val | Ile | Glu | Lys | Lys | Pro | Glu | Lys | Phe | Lys | Ile |
|     |     |     |     | 815 |     |     |     |     | 820 |     |     |     |     | 825 |
| Glu | Cys | Leu | Asn | Asp | Ile | Lys | Asn | Leu | Phe | Ala | Pro | Ser | Lys | Gln |
|     |     |     |     | 830 |     |     |     |     | 835 |     |     |     |     | 840 |
| Pro | Phe | Tyr | Ala | Ala | Phe | Gly | Asn | Arg | Pro | Asn | Asp | Val | Tyr | Ala |
|     |     |     |     | 845 |     |     |     |     | 850 |     |     |     |     | 855 |
| Tyr | Thr | Gln | Val | Gly | Val | Pro | Asp | Cys | Arg | Ile | Phe | Thr | Val | Asn |
|     |     |     |     | 860 |     |     |     |     | 865 |     |     |     |     | 870 |
| Pro | Lys | Gly | Glu | Leu | Ile | Gln | Glu | Arg | Thr | Lys | Gly | Asn | Lys | Ser |
|     |     |     |     | 875 |     |     |     |     | 880 |     |     |     |     | 885 |
| Ser | Tyr | His | Arg | Leu | Ser | Glu | Leu | Val | Glu | His | Val | Phe | Pro | Leu |
|     |     |     |     | 890 |     |     |     |     | 895 |     |     |     |     | 900 |
| Leu | Ser | Lys | Glu | Gln | Asn | Ser | Ala | Phe | Pro | Cys | Pro | Glu | Phe | Ser |
|     |     |     |     | 905 |     |     |     |     | 910 |     |     |     |     | 915 |
| Ser | Phe | Cys | Tyr | Trp | Arg | Asp | Pro | Ile | Pro | Glu | Val | Asp | Leu | Asp |
|     |     |     |     | 920 |     |     |     |     | 925 |     |     |     |     | 930 |

Asp Leu Ser

&lt;210&gt; 32

&lt;211&gt; 268

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1708229CD1

&lt;400&gt; 32

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Gly | Asp | His | Cys | Ser | Leu | Pro | Glu | Asp | Gln | Ala | Arg | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Gly | Gln | Ser | Leu | Gln | Ser | Gly | Leu | Cys | Cys | Lys | Met | Val | Leu | Gln |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Ala | Val | Ser | Lys | Val | Leu | Arg | Lys | Ser | Lys | Ala | Lys | Pro | Asn | Gly |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Lys | Lys | Pro | Ala | Ala | Glu | Glu | Arg | Lys | Ala | Tyr | Leu | Glu | Pro | Glu |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| His | Thr | Lys | Ala | Arg | Ile | Thr | Asp | Phe | Gln | Phe | Lys | Glu | Leu | Val |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Val | Leu | Pro | Arg | Glu | Ile | Asp | Leu | Asn | Glu | Trp | Leu | Ala | Ser | Asn |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Thr | Thr | Thr | Phe | Phe | His | His | Ile | Asn | Leu | Gln | Tyr | Ser | Thr | Ile |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Ser | Glu | Phe | Cys | Thr | Gly | Glu | Thr | Cys | Gln | Thr | Met | Ala | Val | Cys |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Asn | Thr | Gln | Tyr | Tyr | Trp | Tyr | Asp | Glu | Arg | Gly | Lys | Lys | Val | Lys |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Cys | Thr | Ala | Pro | Gln | Tyr | Val | Asp | Phe | Val | Met | Ser | Ser | Val | Gln |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Val | Thr | Asp | Glu | Asp | Val | Phe | Pro | Thr | Lys | Tyr | Gly | Arg | 140 | 145 | 150 |
| Glu | Phe | Pro | Ser | Ser | Phe | Glu | Ser | Leu | Val | Arg | Lys | Ile | Cys | Arg | 155 | 160 | 165 |
| His | Leu | Phe | His | Val | Leu | Ala | His | Ile | Tyr | Trp | Ala | His | Phe | Lys | 170 | 175 | 180 |
| Glu | Thr | Leu | Ala | Leu | Glu | Leu | His | Gly | His | Leu | Asn | Thr | Leu | Tyr | 185 | 190 | 195 |
| Val | His | Phe | Ile | Leu | Phe | Ala | Arg | Glu | Phe | Asn | Leu | Leu | Asp | Pro | 200 | 205 | 210 |
| Lys | Glu | Thr | Ala | Ile | Met | Asp | Asp | Leu | Thr | Glu | Val | Leu | Cys | Ser | 215 | 220 | 225 |
| Gly | Ala | Gly | Gly | Val | His | Ser | Gly | Gly | Ser | Gly | Asp | Gly | Ala | Gly | 230 | 235 | 240 |
| Ser | Gly | Gly | Pro | Gly | Ala | Gln | Asn | His | Val | Lys | Glu | Arg |     |     | 245 | 250 | 255 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 260 | 265 |     |

<210> 33'  
 <211> 337  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1806454CD1

<400> 33

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Leu | Gly | Leu | Ala | Ala | Met | Glu | Leu | Lys | Val | Trp | Val | Asp | 1   | 5   | 10  | 15  |
| Gly | Ile | Gln | Arg | Val | Val | Cys | Gly | Val | Ser | Glu | Gln | Thr | Thr | Cys | 20  | 25  | 30  | 35  |
| Gln | Glu | Val | Val | Ile | Ala | Leu | Ala | Gln | Ala | Ile | Gly | Gln | Thr | Gly | 40  | 45  | 50  | 55  |
| Arg | Phe | Val | Leu | Val | Gln | Arg | Leu | Arg | Glu | Lys | Glu | Arg | Gln | Leu | 60  | 65  | 70  | 75  |
| Leu | Pro | Gln | Glu | Cys | Pro | Val | Gly | Ala | Gln | Ala | Thr | Cys | Gly | Gln | 80  | 85  | 90  | 95  |
| Phe | Ala | Ser | Asp | Val | Gln | Phe | Val | Leu | Arg | Arg | Thr | Gly | Pro | Ser | 100 | 105 | 110 | 115 |
| Leu | Ala | Gly | Arg | Pro | Ser | Ser | Asp | Ser | Cys | Pro | Pro | Pro | Glu | Arg | 120 | 125 | 130 | 135 |
| Cys | Leu | Ile | Arg | Ala | Ser | Leu | Pro | Val | Lys | Pro | Arg | Ala | Ala | Leu | 140 | 145 | 150 | 155 |
| Gly | Cys | Glu | Pro | Arg | Lys | Thr | Leu | Thr | Pro | Glu | Pro | Ala | Pro | Ser | 160 | 165 | 170 | 175 |
| Leu | Ser | Arg | Pro | Gly | Pro | Ala | Ala | Pro | Val | Thr | Pro | Thr | Pro | Gly | 180 | 185 | 190 | 195 |
| Cys | Cys | Thr | Asp | Leu | Arg | Gly | Leu | Glu | Leu | Arg | Val | Gln | Arg | Asn | 200 | 205 | 210 | 215 |
| Ala | Glu | Glu | Leu | Gly | His | Glu | Ala | Phe | Trp | Glu | Gln | Glu | Leu | Arg | 220 | 225 | 230 | 235 |
| Arg | Glu | Gln | Ala | Arg | Glu | Arg | Glu | Gly | Gln | Ala | Arg | Leu | Gln | Ala | 240 | 245 | 250 | 255 |
| Leu | Ser | Ala | Ala | Thr | Ala | Glu | His | Ala | Ala | Arg | Leu | Gln | Ala | Leu | 260 | 265 | 270 |     |
| Asp | Ala | Gln | Ala | Arg | Ala | Leu | Glu | Ala | Glu | Leu | Gln | Leu | Ala | Ala |     |     |     |     |
| Glu | Ala | Pro | Gly | Pro | Pro | Ser | Pro | Met | Ala | Ser | Ala | Thr | Glu | Arg |     |     |     |     |
| Leu | His | Gln | Asp | Leu | Ala | Val | Gln | Glu | Arg | Gln | Ser | Ala | Glu | Val |     |     |     |     |
| Gln | Gly | Ser | Leu | Ala | Leu | Val | Ser | Arg | Ala | Leu | Glu | Ala | Ala | Glu |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Leu | Gln | Ala | Gln | Ala | Gln | Glu | Leu | Glu | Glu | Leu | Asn | Arg |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Glu | Leu | Arg | Gln | Cys | Asn | Leu | Gln | Gln | Phe | Ile | Gln | Gln | Thr | Gly |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Ala | Ala | Leu | Pro | Pro | Pro | Pro | Arg | Pro | Asp | Arg | Gly | Pro | Pro | Gly |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Thr | Gln | Val | Gly | Val | Val | Leu | Gly | Gly | Gly | Trp | Glu | Val | Arg | Thr |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Trp | Pro | Ser | Pro | Thr | Pro | Ser |     |     |     |     |     |     |     |     |
|     |     |     |     | 335 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 34

&lt;211&gt; 565

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1806850CD1

&lt;400&gt; 34

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Glu | Glu | Glu | Glu | Val | Phe | Gln | Pro | Met | Leu | Met | Glu | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Phe | Thr | Tyr | Glu | Glu | Leu | Lys | Tyr | Ile | Lys | Lys | Lys | Val | Ile | Ala |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Gln | His | Cys | Ser | Gln | Lys | Asp | Thr | Ala | Glu | Leu | Leu | Arg | Gly | Leu |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ser | Leu | Trp | Asn | His | Ala | Glu | Glu | Arg | Gln | Lys | Phe | Phe | Lys | Tyr |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Ser | Val | Asp | Glu | Lys | Ser | Asp | Lys | Glu | Ala | Glu | Val | Ser | Glu | His |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Ser | Thr | Gly | Ile | Thr | His | Leu | Pro | Pro | Glu | Val | Met | Leu | Ser | Ile |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Phe | Ser | Tyr | Leu | Asn | Pro | Gln | Glu | Leu | Cys | Arg | Cys | Ser | Gln | Val |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Ser | Met | Lys | Trp | Ser | Gln | Leu | Thr | Lys | Thr | Gly | Ser | Leu | Trp | Lys |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| His | Leu | Tyr | Pro | Val | His | Trp | Ala | Arg | Gly | Asp | Trp | Tyr | Ser | Gly |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Pro | Ala | Thr | Glu | Leu | Asp | Thr | Glu | Pro | Asp | Asp | Glu | Trp | Val | Lys |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Asn | Arg | Lys | Asp | Glu | Ser | Arg | Ala | Phe | His | Glu | Trp | Asp | Glu | Asp |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Ala | Asp | Ile | Asp | Glu | Ser | Glu | Glu | Ser | Ala | Glu | Glu | Ser | Ile | Ala |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ile | Ser | Ile | Ala | Gln | Met | Glu | Lys | Arg | Leu | Leu | His | Gly | Leu | Ile |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| His | Asn | Val | Leu | Pro | Tyr | Val | Gly | Thr | Ser | Val | Lys | Thr | Leu | Val |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Leu | Ala | Tyr | Ser | Ser | Ala | Val | Ser | Ser | Lys | Met | Val | Arg | Gln | Ile |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Leu | Glu | Leu | Cys | Pro | Asn | Leu | Glu | His | Leu | Asp | Leu | Thr | Gln | Thr |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Asp | Ile | Ser | Asp | Ser | Ala | Phe | Asp | Ser | Trp | Ser | Trp | Leu | Gly | Cys |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Cys | Gln | Ser | Leu | Arg | His | Leu | Asp | Leu | Ser | Gly | Cys | Glu | Lys | Ile |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Thr | Asp | Val | Ala | Leu | Glu | Lys | Ile | Ser | Arg | Ala | Leu | Gly | Ile | Leu |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Thr | Ser | His | Gln | Ser | Gly | Phe | Leu | Lys | Thr | Ser | Thr | Ser | Lys | Ile |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Thr | Ser | Thr | Ala | Trp | Lys | Asn | Lys | Asp | Ile | Thr | Met | Gln | Ser | Thr |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Lys | Gln | Tyr | Ala | Cys | Leu | His | Asp | Leu | Thr | Asn | Lys | Gly | Ile | Gly |



|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 320                 |                     | 325 |  | 330 |
| Glu Glu Ile Asp | Asn Glu His Pro Trp | Thr Lys Pro Val Ser | Ser |  |     |
|                 | 335                 |                     | 340 |  | 345 |
| Glu Asn Phe Thr | Ser Pro Tyr Val Trp | Met Leu Asp Ala Glu | Asp |  |     |
|                 | 350                 |                     | 355 |  | 360 |
| Leu Ala Asp Ile | Glu Asp Thr Val Glu | Trp Arg His Arg Asn | Val |  |     |
|                 | 365                 |                     | 370 |  | 375 |
| Glu Ser Leu Cys | Val Met Glu Thr Ala | Ser Asn Phe Ser Cys | Ser |  |     |
|                 | 380                 |                     | 385 |  | 390 |
| Thr Ser Gly Cys | Phe Ser Lys Asp Ile | Val Gly Leu Arg Thr | Ser |  |     |
|                 | 395                 |                     | 400 |  | 405 |
| Val Cys Trp Gln | Gln His Cys Ala Ser | Pro Ala Phe Ala Tyr | Cys |  |     |
|                 | 410                 |                     | 415 |  | 420 |
| Gly His Ser Phe | Cys Cys Thr Gly Thr | Ala Leu Arg Thr Met | Ser |  |     |
|                 | 425                 |                     | 430 |  | 435 |
| Ser Leu Pro Glu | Ser Ser Ala Met Cys | Arg Lys Ala Ala Arg | Thr |  |     |
|                 | 440                 |                     | 445 |  | 450 |
| Arg Leu Pro Arg | Gly Lys Asp Leu Ile | Tyr Phe Gly Ser Glu | Lys |  |     |
|                 | 455                 |                     | 460 |  | 465 |
| Ser Asp Gln Glu | Thr Gly Arg Val Leu | Leu Phe Leu Ser Leu | Ser |  |     |
|                 | 470                 |                     | 475 |  | 480 |
| Gly Cys Tyr Gln | Ile Thr Asp His Gly | Leu Arg Val Leu Thr | Leu |  |     |
|                 | 485                 |                     | 490 |  | 495 |
| Gly Gly Gly Leu | Pro Tyr Leu Glu His | Leu Asn Leu Ser Gly | Cys |  |     |
|                 | 500                 |                     | 505 |  | 510 |
| Leu Thr Ile Thr | Gly Ala Gly Leu Gln | Asp Leu Val Ser Ala | Cys |  |     |
|                 | 515                 |                     | 520 |  | 525 |
| Pro Ser Leu Asn | Asp Glu Tyr Phe Tyr | Tyr Cys Asp Asn Ile | Asn |  |     |
|                 | 530                 |                     | 535 |  | 540 |
| Gly Pro His Ala | Asp Thr Ala Ser Gly | Cys Gln Asn Leu Gln | Cys |  |     |
|                 | 545                 |                     | 550 |  | 555 |
| Gly Phe Arg Ala | Cys Cys Arg Ser Gly | Glu                 |     |  |     |
|                 | 560                 |                     | 565 |  |     |

&lt;210&gt; 35

&lt;211&gt; 228

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1851534CD1

&lt;400&gt; 35

|                 |                     |                     |         |  |
|-----------------|---------------------|---------------------|---------|--|
| Met Asp Phe Ser | Phe Ser Phe Met Gln | Gly Ile Met Gly     | Asn Thr |  |
| 1               | 5                   | 10                  | 15      |  |
| Ile Gln Gln Pro | Pro Gln Leu Ile Asp | Ser Ala Asn Ile Arg | Gln     |  |
|                 | 20                  | 25                  | 30      |  |
| Glu Asp Ala Phe | Asp Asn Asn Ser Asp | Ile Ala Glu Asp Gly | Gly     |  |
|                 | 35                  | 40                  | 45      |  |
| Gln Thr Pro Tyr | Glu Ala Thr Leu Gln | Gln Gly Phe Gln Tyr | Pro     |  |
|                 | 50                  | 55                  | 60      |  |
| Ala Thr Thr Glu | Asp Leu Pro Pro Leu | Thr Asn Gly Tyr Pro | Ser     |  |
|                 | 65                  | 70                  | 75      |  |
| Ser Ile Ser Val | Tyr Glu Thr Gln Thr | Lys Tyr Gln Ser Tyr | Asn     |  |
|                 | 80                  | 85                  | 90      |  |
| Gln Tyr Pro Asn | Gly Ser Ala Asn Gly | Phe Gly Ala Val Arg | Asn     |  |
|                 | 95                  | 100                 | 105     |  |
| Phe Ser Pro Thr | Asp Tyr Tyr His Ser | Glu Ile Pro Asn Thr | Arg     |  |
|                 | 110                 | 115                 | 120     |  |
| Pro His Glu Ile | Leu Glu Lys Pro Ser | Pro Pro Gln Pro Pro | Pro     |  |
|                 | 125                 | 130                 | 135     |  |
| Pro Pro Ser Val | Pro Gln Thr Val Ile | Pro Lys Lys Thr Gly | Ser     |  |
|                 | 140                 | 145                 | 150     |  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Glu | Ile | Lys | Leu | Lys | Ile | Thr | Lys | Thr | Ile | Gln | Asn | Gly | Arg |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Glu | Leu | Phe | Glu | Ser | Ser | Leu | Cys | Gly | Asp | Leu | Leu | Asn | Glu | Val |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Gln | Ala | Ser | Glu | His | Thr | Lys | Ser | Lys | His | Glu | Ser | Arg | Lys | Glu |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Lys | Arg | Lys | Lys | Ser | Asn | Lys | His | Asp | Ser | Ser | Arg | Ser | Glu | Glu |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Arg | Lys | Ser | His | Lys | Ile | Pro | Lys | Leu | Glu | Pro | Glu | Glu | Gln | Asn |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |

Met Thr Lys

<210> 36  
 <211> 495  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1868749CD1

<400> 36

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Gly | Met | Lys | Val | Glu | Val | Leu | Asn | Ser | Asp | Ala | Val | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Pro | Ser | Arg | Val | Tyr | Trp | Ile | Ala | Ser | Val | Ile | Gln | Thr | Ala | Gly |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Tyr | Arg | Val | Leu | Leu | Arg | Tyr | Glu | Gly | Phe | Glu | Asn | Asp | Ala | Ser |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| His | Asp | Phe | Trp | Cys | Asn | Leu | Gly | Thr | Val | Asp | Val | His | Pro | Ile |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Gly | Trp | Cys | Ala | Ile | Asn | Ser | Lys | Ile | Leu | Val | Pro | Pro | Arg | Thr |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Ile | His | Ala | Lys | Phe | Thr | Asp | Trp | Lys | Gly | Tyr | Leu | Met | Lys | Arg |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Leu | Val | Gly | Ser | Arg | Thr | Leu | Pro | Val | Asp | Phe | His | Ile | Lys | Met |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Val | Glu | Ser | Met | Lys | Tyr | Pro | Phe | Arg | Gln | Gly | Met | Arg | Leu | Glu |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Val | Val | Asp | Lys | Ser | Gln | Val | Ser | Arg | Thr | Arg | Met | Ala | Val | Val |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Asp | Thr | Val | Ile | Gly | Gly | Arg | Leu | Arg | Leu | Leu | Tyr | Glu | Asp | Gly |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Asp | Ser | Asp | Asp | Asp | Phe | Trp | Cys | His | Met | Trp | Ser | Pro | Leu | Ile |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| His | Pro | Val | Gly | Trp | Ser | Arg | Arg | Val | Gly | His | Gly | Ile | Lys | Met |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ser | Glu | Arg | Arg | Ser | Asp | Met | Ala | His | His | Pro | Thr | Phe | Arg | Lys |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Ile | Tyr | Cys | Asp | Ala | Val | Pro | Tyr | Leu | Phe | Lys | Lys | Val | Arg | Ala |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Val | Tyr | Thr | Glu | Gly | Gly | Trp | Phe | Glu | Glu | Gly | Met | Lys | Leu | Glu |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Ala | Ile | Asp | Pro | Leu | Asn | Leu | Gly | Asn | Ile | Cys | Val | Ala | Thr | Val |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Cys | Lys | Val | Leu | Leu | Asp | Gly | Tyr | Leu | Met | Ile | Cys | Val | Asp | Gly |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Gly | Pro | Ser | Thr | Asp | Gly | Leu | Asp | Trp | Phe | Cys | Tyr | His | Ala | Ser |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Ser | His | Ala | Ile | Phe | Pro | Ala | Thr | Phe | Cys | Gln | Lys | Asn | Asp | Ile |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Glu | Leu | Thr | Pro | Pro | Lys | Gly | Tyr | Glu | Ala | Gln | Thr | Phe | Asn | Trp |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Glu | Asn | Tyr | Leu | Glu | Lys | Thr | Lys | Ser | Lys | Ala | Ala | Pro | Ser | Arg |

|                     |     |                     |                     |
|---------------------|-----|---------------------|---------------------|
| Leu Phe Asn Met     | 305 | 310                 | 315                 |
| Asp Cys Pro Asn His |     | Gly Phe Lys Val Gly | Met                 |
| 320                 |     | 325                 | 330                 |
| Lys Leu Glu Ala Val |     | Pro Arg Leu Ile Cys | Val                 |
| 335                 |     | 340                 | 345                 |
| Ala Thr Val Lys Arg |     | Leu Leu Ser Ile His | Phe                 |
| 350                 |     | 355                 | 360                 |
| Asp Gly Trp Asp Ser |     | Trp Val Asp Cys Glu | Ser                 |
| 365                 |     | 370                 | 375                 |
| Pro Asp Ile Tyr Pro |     | Glu Leu Thr Gly Tyr | Gln                 |
| 380                 |     | 385                 | 390                 |
| Leu Gln Pro Pro Val |     | Ala Thr Pro Leu Lys | Ala                 |
| 395                 |     | 400                 | 405                 |
| Lys Glu Ala Thr Lys |     | Gln Phe Gly Lys Lys | Arg                 |
| 410                 |     | 415                 | 420                 |
| Lys Arg Ile Pro Pro |     | Thr Lys Thr Arg Pro | Leu Arg Gln Gly Ser |
| 425                 |     | 430                 | 435                 |
| Lys Lys Pro Leu Leu |     | Glu Asp Asp Pro Gln | Gly Ala Arg Lys Ile |
| 440                 |     | 445                 | 450                 |
| Ser Ser Glu Pro Val |     | Pro Gly Glu Ile Ile | Ala Val Arg Val Lys |
| 455                 |     | 460                 | 465                 |
| Glu Glu His Leu Asp |     | Val Ala Ser Pro Asp | Lys Ala Ser Ser Pro |
| 470                 |     | 475                 | 480                 |
| Glu Leu Pro Val Ser |     | Val Glu Asn Ile Lys | Gln Glu Thr Asp Asp |
| 485                 |     | 490                 | 495                 |

&lt;210&gt; 37

&lt;211&gt; 1336

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1980010CD1

&lt;400&gt; 37

|                     |     |                     |     |                     |     |    |
|---------------------|-----|---------------------|-----|---------------------|-----|----|
| Met Val Asp Gln Leu | 1   | Glu Gln Ile Leu Ser | 5   | Val Ser Glu Leu Leu | 10  | 15 |
| Glu Lys His Gly Leu | 20  | Glu Lys Pro Ile Ser | 25  | Phe Val Lys Asn Thr | 30  |    |
| Gln Ser Ser Ser Glu | 35  | Glu Ala Arg Lys Leu | 40  | Met Val Arg Leu Thr | 45  |    |
| Arg His Thr Gly Arg | 50  | Lys Gln Pro Pro Val | 55  | Ser Glu Ser His Trp | 60  |    |
| Arg Thr Leu Leu Gln | 65  | Asp Met Leu Thr Met | 70  | Gln Gln Asn Val Tyr | 75  |    |
| Thr Cys Leu Asp Ser | 80  | Asp Ala Cys Tyr Glu | 85  | Ile Phe Thr Glu Ser | 90  |    |
| Leu Leu Cys Ser Ser | 95  | Arg Leu Glu Asn Ile | 100 | His Leu Ala Gly Gln | 105 |    |
| Met Met His Cys Ser | 110 | Ala Cys Ser Glu Asn | 115 | Pro Pro Ala Gly Ile | 120 |    |
| Ala His Lys Gly Asn | 125 | Pro His Tyr Arg Val | 130 | Ser Tyr Glu Lys Ser | 135 |    |
| Ile Asp Leu Val Leu | 140 | Ala Ala Ser Arg Glu | 145 | Tyr Phe Asn Ser Ser | 150 |    |
| Thr Asn Leu Thr Asp | 155 | Ser Cys Met Asp Leu | 160 | Ala Arg Cys Cys Leu | 165 |    |
| Gln Leu Ile Thr Asp | 170 | Arg Pro Pro Ala Ile | 175 | Gln Glu Glu Leu Asp | 180 |    |
| Leu Ile Gln Ala Val | 185 | Gly Cys Leu Glu Glu | 190 | Phe Gly Val Lys Ile | 195 |    |
| Leu Pro Leu Gln Val |     | Arg Leu Cys Pro Asp |     | Arg Ile Ser Leu Ile |     |    |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Lys | Glu | Cys | Ile | Ser | Gln | Ser | Pro | Thr | Cys | Tyr | Lys | Gln | Ser | Thr |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Lys | Leu | Leu | Gly | Leu | Ala | Glu | Leu | Leu | Arg | Val | Ala | Gly | Glu | Asn |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Pro | Glu | Glu | Arg | Arg | Gly | Gln | Val | Leu | Ile | Leu | Leu | Val | Glu | Gln |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Ala | Leu | Arg | Phe | His | Asp | Tyr | Lys | Ala | Ala | Ser | Met | His | Cys | Gln |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Glu | Leu | Met | Ala | Thr | Gly | Tyr | Pro | Lys | Ser | Trp | Asp | Val | Cys | Ser |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Gln | Leu | Gly | Gln | Ser | Glu | Gly | Tyr | Gln | Asp | Leu | Ala | Thr | Arg | Gln |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Glu | Leu | Met | Ala | Phe | Ala | Leu | Thr | His | Cys | Pro | Pro | Ser | Ser | Ile |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Glu | Leu | Leu | Leu | Ala | Ala | Ser | Ser | Ser | Leu | Gln | Thr | Glu | Ile | Leu |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Tyr | Gln | Arg | Val | Asn | Phe | Gln | Ile | His | His | Glu | Gly | Gly | Glu | Asn |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Ile | Ser | Ala | Ser | Pro | Leu | Thr | Ser | Lys | Ala | Val | Gln | Glu | Asp | Glu |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Val | Gly | Val | Pro | Gly | Ser | Asn | Ser | Ala | Asp | Leu | Leu | Arg | Trp | Thr |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Thr | Ala | Thr | Thr | Met | Lys | Val | Leu | Ser | Asn | Thr | Thr | Thr | Thr | Thr |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Lys | Ala | Val | Leu | Gln | Ala | Val | Ser | Asp | Gly | Gln | Trp | Trp | Lys | Lys |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Ser | Leu | Thr | Tyr | Leu | Arg | Pro | Leu | Gln | Gly | Gln | Lys | Cys | Gly | Gly |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Ala | Tyr | Gln | Ile | Gly | Thr | Thr | Ala | Asn | Glu | Asp | Leu | Glu | Lys | Gln |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Gly | Cys | His | Pro | Phe | Tyr | Glu | Ser | Val | Ile | Ser | Asn | Pro | Phe | Val |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Ala | Glu | Ser | Glu | Gly | Thr | Tyr | Asp | Thr | Tyr | Gln | His | Val | Pro | Val |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Glu | Ser | Phe | Ala | Glu | Val | Leu | Leu | Arg | Thr | Gly | Lys | Leu | Ala | Glu |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Ala | Lys | Asn | Lys | Gly | Glu | Val | Phe | Pro | Thr | Thr | Glu | Val | Leu | Leu |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Gln | Leu | Ala | Ser | Glu | Ala | Leu | Pro | Asn | Asp | Met | Thr | Leu | Ala | Leu |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Ala | Tyr | Leu | Leu | Ala | Leu | Pro | Gln | Val | Leu | Asp | Ala | Asn | Arg | Cys |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Phe | Glu | Lys | Gln | Ser | Pro | Ser | Ala | Leu | Ser | Leu | Gln | Leu | Ala | Ala |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |
| Tyr | Tyr | Tyr | Ser | Leu | Gln | Ile | Tyr | Ala | Arg | Leu | Ala | Pro | Cys | Phe |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |
| Arg | Asp | Lys | Cys | His | Pro | Leu | Tyr | Arg | Ala | Asp | Pro | Lys | Glu | Leu |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |
| Ile | Lys | Met | Val | Thr | Arg | His | Val | Thr | Arg | His | Glu | His | Glu | Ala |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |
| Trp | Pro | Glu | Asp | Leu | Ile | Ser | Leu | Thr | Lys | Gln | Leu | His | Cys | Tyr |
|     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |
| Asn | Glu | Arg | Leu | Leu | Asp | Phe | Thr | Gln | Ala | Gln | Ile | Leu | Gln | Gly |
|     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |
| Leu | Arg | Lys | Gly | Val | Asp | Val | Gln | Arg | Phe | Thr | Ala | Asp | Asp | Gln |
|     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |
| Tyr | Lys | Arg | Glu | Thr | Ile | Leu | Gly | Leu | Ala | Glu | Thr | Leu | Glu | Glu |
|     |     |     |     | 635 |     |     |     |     | 640 |     |     |     |     | 645 |
| Ser | Val | Tyr | Ser | Ile | Ala | Ile | Ser | Leu | Ala | Gln | Arg | Tyr | Ser | Val |
|     |     |     |     | 650 |     |     |     |     | 655 |     |     |     |     | 660 |
| Ser | Arg | Trp | Glu | Val | Phe | Met | Thr | His | Leu | Glu | Phe | Leu | Phe | Thr |
|     |     |     |     | 665 |     |     |     |     | 670 |     |     |     |     | 675 |

|     |     |     |     |      |     |     |     |     |      |     |     |     |     |      |
|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|
| Asp | Ser | Gly | Leu | Ser  | Thr | Leu | Glu | Ile | Glu  | Asn | Arg | Ala | Gln | Asp  |
|     |     |     |     | 680  |     |     |     |     | 685  |     |     |     |     | 690  |
| Leu | His | Leu | Phe | Glu  | Thr | Leu | Lys | Thr | Asp  | Pro | Glu | Ala | Phe | His  |
|     |     |     |     | 695  |     |     |     |     | 700  |     |     |     |     | 705  |
| Gln | His | Met | Val | Lys  | Tyr | Ile | Tyr | Pro | Thr  | Ile | Gly | Gly | Phe | Asp  |
|     |     |     |     | 710  |     |     |     |     | 715  |     |     |     |     | 720  |
| His | Glu | Arg | Leu | Gln  | Tyr | Tyr | Phe | Thr | Leu  | Leu | Glu | Asn | Cys | Gly  |
|     |     |     |     | 725  |     |     |     |     | 730  |     |     |     |     | 735  |
| Cys | Ala | Asp | Leu | Gly  | Asn | Cys | Ala | Ile | Lys  | Pro | Glu | Thr | His | Ile  |
|     |     |     |     | 740  |     |     |     |     | 745  |     |     |     |     | 750  |
| Arg | Leu | Leu | Lys | Lys  | Phe | Lys | Val | Val | Ala  | Ser | Gly | Leu | Asn | Tyr  |
|     |     |     |     | 755  |     |     |     |     | 760  |     |     |     |     | 765  |
| Lys | Lys | Leu | Thr | Asp  | Glu | Asn | Met | Ser | Pro  | Leu | Glu | Ala | Leu | Glu  |
|     |     |     |     | 770  |     |     |     |     | 775  |     |     |     |     | 780  |
| Pro | Val | Leu | Ser | Ser  | Gln | Asn | Ile | Leu | Ser  | Ile | Ser | Lys | Leu | Val  |
|     |     |     |     | 785  |     |     |     |     | 790  |     |     |     |     | 795  |
| Pro | Lys | Ile | Pro | Glu  | Lys | Asp | Gly | Gln | Met  | Leu | Ser | Pro | Ser | Ser  |
|     |     |     |     | 800  |     |     |     |     | 805  |     |     |     |     | 810  |
| Leu | Tyr | Thr | Ile | Trp  | Leu | Gln | Lys | Leu | Phe  | Trp | Thr | Gly | Asp | Pro  |
|     |     |     |     | 815  |     |     |     |     | 820  |     |     |     |     | 825  |
| His | Leu | Ile | Lys | Gln  | Val | Pro | Gly | Ser | Ser  | Pro | Glu | Trp | Leu | His  |
|     |     |     |     | 830  |     |     |     |     | 835  |     |     |     |     | 840  |
| Ala | Tyr | Asp | Val | Cys  | Met | Lys | Tyr | Phe | Asp  | Arg | Leu | His | Pro | Gly  |
|     |     |     |     | 845  |     |     |     |     | 850  |     |     |     |     | 855  |
| Asp | Leu | Ile | Thr | Val  | Val | Asp | Ala | Val | Thr  | Phe | Ser | Pro | Lys | Ala  |
|     |     |     |     | 860  |     |     |     |     | 865  |     |     |     |     | 870  |
| Val | Thr | Lys | Leu | Ser  | Val | Glu | Ala | Arg | Lys  | Glu | Met | Thr | Arg | Lys  |
|     |     |     |     | 875  |     |     |     |     | 880  |     |     |     |     | 885  |
| Ala | Ile | Lys | Thr | Val  | Lys | His | Phe | Ile | Glu  | Lys | Pro | Arg | Lys | Arg  |
|     |     |     |     | 890  |     |     |     |     | 895  |     |     |     |     | 900  |
| Asn | Ser | Glu | Asp | Glu  | Ala | Gln | Glu | Ala | Lys  | Asp | Ser | Lys | Val | Thr  |
|     |     |     |     | 905  |     |     |     |     | 910  |     |     |     |     | 915  |
| Tyr | Ala | Asp | Thr | Leu  | Asn | His | Leu | Glu | Lys  | Ser | Leu | Ala | His | Leu  |
|     |     |     |     | 920  |     |     |     |     | 925  |     |     |     |     | 930  |
| Glu | Thr | Leu | Ser | His  | Ser | Phe | Ile | Leu | Ser  | Leu | Lys | Asn | Ser | Glu  |
|     |     |     |     | 935  |     |     |     |     | 940  |     |     |     |     | 945  |
| Gln | Glu | Thr | Leu | Gln  | Lys | Tyr | Ser | His | Leu  | Tyr | Asp | Leu | Ser | Arg  |
|     |     |     |     | 950  |     |     |     |     | 955  |     |     |     |     | 960  |
| Ser | Glu | Lys | Glu | Lys  | Leu | His | Asp | Glu | Ala  | Val | Ala | Ile | Cys | Leu  |
|     |     |     |     | 965  |     |     |     |     | 970  |     |     |     |     | 975  |
| Asp | Gly | Gln | Pro | Leu  | Ala | Met | Ile | Gln | Gln  | Leu | Leu | Glu | Val | Ala  |
|     |     |     |     | 980  |     |     |     |     | 985  |     |     |     |     | 990  |
| Val | Gly | Pro | Leu | Asp  | Ile | Ser | Pro | Lys | Asp  | Ile | Val | Gln | Ser | Ala  |
|     |     |     |     | 995  |     |     |     |     | 1000 |     |     |     |     | 1005 |
| Ile | Met | Lys | Ile | Ile  | Ser | Ala | Leu | Ser | Gly  | Gly | Ser | Ala | Asp | Leu  |
|     |     |     |     | 1010 |     |     |     |     | 1015 |     |     |     |     | 1020 |
| Gly | Gly | Pro | Arg | Asp  | Pro | Leu | Lys | Val | Leu  | Glu | Gly | Val | Val | Ala  |
|     |     |     |     | 1025 |     |     |     |     | 1030 |     |     |     |     | 1035 |
| Ala | Val | His | Ala | Ser  | Val | Asp | Lys | Gly | Glu  | Glu | Leu | Val | Ser | Pro  |
|     |     |     |     | 1040 |     |     |     |     | 1045 |     |     |     |     | 1050 |
| Glu | Asp | Leu | Leu | Glu  | Trp | Leu | Arg | Pro | Phe  | Cys | Ala | Asp | Asp | Ala  |
|     |     |     |     | 1055 |     |     |     |     | 1060 |     |     |     |     | 1065 |
| Trp | Pro | Val | Arg | Pro  | Arg | Ile | His | Val | Leu  | Gln | Ile | Leu | Gly | Gln  |
|     |     |     |     | 1070 |     |     |     |     | 1075 |     |     |     |     | 1080 |
| Ser | Phe | His | Leu | Thr  | Glu | Glu | Asp | Ser | Lys  | Leu | Leu | Val | Phe | Phe  |
|     |     |     |     | 1085 |     |     |     |     | 1090 |     |     |     |     | 1095 |
| Arg | Thr | Glu | Ala | Ile  | Leu | Lys | Ala | Ser | Trp  | Pro | Gln | Arg | Gln | Val  |
|     |     |     |     | 1100 |     |     |     |     | 1105 |     |     |     |     | 1110 |
| Asp | Ile | Ala | Asp | Ile  | Glu | Asn | Glu | Glu | Asn  | Arg | Tyr | Cys | Leu | Phe  |
|     |     |     |     | 1115 |     |     |     |     | 1120 |     |     |     |     | 1125 |
| Met | Glu | Leu | Leu | Glu  | Ser | Ser | His | His | Glu  | Ala | Glu | Phe | Gln | His  |
|     |     |     |     | 1130 |     |     |     |     | 1135 |     |     |     |     | 1140 |
| Leu | Val | Leu | Leu | Leu  | Gln | Ala | Trp | Pro | Pro  | Met | Lys | Ser | Glu | Tyr  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| Val | Ile | Thr | Asn | Asn | Pro | Trp | Val | Arg | Leu | Ala | Thr | Val | Met | Leu | 1145 | 1150 | 1155 |
| Thr | Arg | Cys | Thr | Met | Glu | Asn | Lys | Glu | Gly | Leu | Gly | Asn | Glu | Val | 1160 | 1165 | 1170 |
| Leu | Lys | Met | Cys | Arg | Ser | Leu | Tyr | Asn | Thr | Lys | Gln | Met | Leu | Pro | 1175 | 1180 | 1185 |
| Ala | Glu | Gly | Val | Lys | Glu | Leu | Cys | Leu | Leu | Leu | Leu | Asn | Gln | Ser | 1190 | 1195 | 1200 |
| Leu | Leu | Leu | Pro | Ser | Leu | Lys | Leu | Leu | Leu | Glu | Ser | Arg | Asp | Glu | 1205 | 1210 | 1215 |
| His | Leu | His | Glu | Met | Ala | Leu | Glu | Gln | Ile | Thr | Ala | Val | Thr | Thr | 1220 | 1225 | 1230 |
| Val | Asn | Asp | Ser | Asn | Cys | Asp | Gln | Glu | Leu | Leu | Ser | Leu | Leu | Leu | 1235 | 1240 | 1245 |
| Asp | Ala | Lys | Leu | Leu | Val | Lys | Cys | Val | Ser | Thr | Pro | Phe | Tyr | Pro | 1250 | 1255 | 1260 |
| Arg | Ile | Val | Asp | His | Leu | Leu | Ala | Ser | Leu | Gln | Gln | Gly | Arg | Trp | 1265 | 1270 | 1275 |
| Asp | Ala | Glu | Glu | Leu | Gly | Arg | His | Leu | Arg | Glu | Ala | Gly | His | Glu | 1280 | 1285 | 1290 |
| Ala | Glu | Ala | Gly | Ser | Leu | Leu | Leu | Ala | Val | Arg | Gly | Thr | His | Gln | 1295 | 1300 | 1305 |
| Ala | Phe | Arg | Thr | Phe | Ser | Thr | Ala | Leu | Arg | Ala | Ala | Gln | His | Trp | 1310 | 1315 | 1320 |
| Val |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 1325 | 1330 | 1335 |

&lt;210&gt; 38

&lt;211&gt; 934

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2259032CD1

&lt;400&gt; 38

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | Trp | Lys | Phe | Asp | Leu | Asn | Thr | Thr | Ser | His | Val | Asp | Lys | 1   | 5   | 10  | 15  |
| Leu | Leu | Asp | Lys | Glu | His | Val | Thr | Leu | Gln | Glu | Leu | Met | Asp | Glu | 20  | 25  | 30  | 35  |
| Asp | Asp | Ile | Leu | Gln | Glu | Cys | Lys | Ala | Gln | Asn | Gln | Lys | Leu | Leu | 40  | 45  | 50  | 55  |
| Asp | Phe | Leu | Cys | Arg | Gln | Gln | Cys | Met | Glu | Glu | Leu | Val | Ser | Leu | 60  | 65  | 70  | 75  |
| Ile | Thr | Gln | Asp | Pro | Pro | Leu | Asp | Met | Glu | Glu | Lys | Val | Arg | Phe | 80  | 85  | 90  | 95  |
| Lys | Tyr | Pro | Asn | Thr | Ala | Cys | Glu | Leu | Leu | Thr | Cys | Asp | Val | Pro | 100 | 105 | 110 | 115 |
| Gln | Ile | Ser | Asp | Arg | Leu | Gly | Gly | Asp | Glu | Ser | Leu | Leu | Ser | Leu | 120 | 125 | 130 | 135 |
| Leu | Tyr | Asp | Phe | Leu | Asp | His | Glu | Pro | Pro | Leu | Asn | Pro | Leu | Leu | 140 | 145 | 150 | 155 |
| Ala | Ser | Phe | Phe | Ser | Lys | Thr | Ile | Gly | Asn | Leu | Ile | Ala | Arg | Lys | 160 | 165 | 170 | 175 |
| Thr | Glu | Gln | Val | Ile | Thr | Phe | Leu | Lys | Lys | Lys | Asp | Lys | Phe | Ile | 180 | 185 | 190 | 195 |
| Ser | Leu | Val | Leu | Lys | His | Ile | Gly | Thr | Ser | Ala | Leu | Met | Asp | Leu |     |     |     |     |
| Leu | Leu | Arg | Leu | Val | Ser | Cys | Val | Glu | Pro | Ala | Gly | Leu | Arg | Gln |     |     |     |     |
| Asp | Val | Leu | His | Trp | Leu | Asn | Glu | Glu | Lys | Val | Ile | Gln | Arg | Leu |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Leu | Ile | His | Pro | Ser | Gln | Asp | Glu | Asp | Arg | Gln | Ser | Asn |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Ala | Ser | Gln | Thr | Leu | Cys | Asp | Ile | Val | Arg | Leu | Gly | Arg | Asp | Gln |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Gly | Ser | Gln | Leu | Gln | Glu | Ala | Leu | Glu | Pro | Asp | Pro | Leu | Leu | Thr |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ala | Leu | Glu | Ser | Arg | Gln | Asp | Cys | Val | Glu | Gln | Leu | Leu | Lys | Asn |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Met | Phe | Asp | Gly | Asp | Arg | Thr | Glu | Ser | Cys | Leu | Val | Ser | Gly | Thr |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Gln | Val | Leu | Leu | Thr | Leu | Leu | Glu | Thr | Arg | Arg | Val | Gly | Thr | Glu |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Gly | Leu | Val | Asp | Ser | Phe | Ser | Gln | Gly | Leu | Glu | Arg | Ser | Tyr | Ala |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Val | Ser | Ser | Ser | Val | Leu | His | Gly | Ile | Glu | Pro | Arg | Leu | Lys | Asp |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Phe | His | Gln | Leu | Leu | Leu | Asn | Pro | Pro | Lys | Lys | Lys | Ala | Ile | Leu |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Thr | Thr | Ile | Gly | Val | Leu | Glu | Glu | Pro | Leu | Gly | Asn | Ala | Arg | Leu |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| His | Gly | Ala | Arg | Leu | Met | Ala | Ala | Leu | Leu | His | Thr | Asn | Thr | Pro |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Ser | Ile | Asn | Gln | Glu | Leu | Cys | Arg | Leu | Asn | Thr | Met | Asp | Leu | Leu |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Leu | Asp | Leu | Phe | Phe | Lys | Tyr | Thr | Trp | Asn | Asn | Phe | Leu | His | Phe |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Gln | Val | Glu | Leu | Cys | Ile | Ala | Ala | Ile | Leu | Ser | His | Ala | Ala | Arg |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Glu | Glu | Arg | Thr | Glu | Ala | Ser | Gly | Ser | Glu | Ser | Arg | Val | Glu | Pro |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Pro | His | Glu | Asn | Gly | Asn | Arg | Ser | Leu | Glu | Thr | Pro | Gln | Pro | Ala |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Ala | Ser | Leu | Pro | Asp | Asn | Thr | Met | Val | Thr | His | Leu | Phe | Gln | Lys |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Cys | Cys | Leu | Val | Gln | Arg | Ile | Leu | Glu | Ala | Trp | Glu | Ala | Asn | Asp |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| His | Thr | Gln | Ala | Ala | Gly | Gly | Met | Arg | Arg | Gly | Asn | Met | Gly | His |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Leu | Thr | Arg | Ile | Ala | Asn | Ala | Val | Val | Gln | Asn | Leu | Glu | Arg | Gly |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Pro | Val | Gln | Thr | His | Ile | Ser | Glu | Val | Ile | Arg | Gly | Leu | Pro | Ala |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Asp | Cys | Arg | Gly | Arg | Trp | Glu | Ser | Phe | Val | Glu | Glu | Thr | Leu | Thr |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Glu | Thr | Asn | Arg | Arg | Asn | Thr | Val | Asp | Leu | Ala | Phe | Ser | Asp | Tyr |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |
| Gln | Ile | Gln | Gln | Met | Thr | Ala | Asn | Phe | Val | Asp | Gln | Phe | Gly | Phe |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |
| Asn | Asp | Glu | Glu | Phe | Ala | Asp | Gln | Asp | Asp | Asn | Ile | Asn | Ala | Pro |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |
| Phe | Asp | Arg | Ile | Ala | Glu | Ile | Asn | Phe | Asn | Ile | Asp | Ala | Asp | Glu |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |
| Asp | Ser | Pro | Ser | Ala | Ala | Leu | Phe | Glu | Ala | Cys | Cys | Ser | Asp | Arg |
|     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |
| Ile | Gln | Pro | Phe | Asp | Asp | Asp | Glu | Asp | Glu | Asp | Ile | Trp | Glu | Asp |
|     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |
| Ser | Asp | Thr | Arg | Cys | Ala | Ala | Arg | Val | Met | Ala | Arg | Pro | Arg | Phe |
|     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |
| Gly | Ala | Pro | His | Ala | Ser | Glu | Ser | Cys | Ser | Lys | Asn | Gly | Pro | Glu |
|     |     |     |     | 635 |     |     |     |     | 640 |     |     |     |     | 645 |
| Arg | Gly | Gly | Gln | Asp | Gly | Lys | Ala | Ser | Leu | Glu | Ala | His | Arg | Asp |
|     |     |     |     | 650 |     |     |     |     | 655 |     |     |     |     | 660 |
| Ala | Pro | Gly | Ala | Gly | Ala | Pro | Pro | Ala | Pro | Gly | Lys | Lys | Glu | Ala |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Val | Glu | Gly | Asp | Ser | Glu | Ala | Gly | Ala | Met | Trp | Thr | Ala | 665 | 670 | 675 |
| Val | Phe | Asp | Glu | Pro | Ala | Asn | Ser | Thr | Pro | Thr | Ala | Pro | Gly | Val | 680 | 685 | 690 |
| Val | Arg | Asp | Val | Gly | Ser | Ser | Val | Trp | Ala | Ala | Gly | Thr | Ser | Ala | 695 | 700 | 705 |
| Pro | Glu | Glu | Lys | Gly | Trp | Ala | Lys | Phe | Thr | Asp | Phe | Gln | Pro | Phe | 710 | 715 | 720 |
| Cys | Cys | Ser | Glu | Ser | Gly | Pro | Arg | Cys | Ser | Ser | Pro | Val | Asp | Thr | 725 | 730 | 735 |
| Glu | Cys | Ser | His | Ala | Glu | Gly | Ser | Arg | Ser | Gln | Gly | Pro | Glu | Lys | 740 | 745 | 750 |
| Ala | Phe | Ser | Pro | Ala | Ser | Pro | Cys | Ala | Trp | Asn | Val | Cys | Val | Thr | 755 | 760 | 765 |
| Arg | Lys | Ala | Pro | Leu | Leu | Ala | Ser | Asp | Ser | Ser | Ser | Ser | Gly | Gly | 770 | 775 | 780 |
| Ser | His | Ser | Glu | Asp | Gly | Asp | Gln | Lys | Ala | Ala | Ser | Ala | Met | Asp | 785 | 790 | 795 |
| Ala | Val | Ser | Arg | Gly | Pro | Gly | Arg | Glu | Ala | Pro | Pro | Leu | Pro | Thr | 800 | 805 | 810 |
| Val | Ala | Arg | Thr | Glu | Glu | Ala | Val | Gly | Arg | Val | Gly | Cys | Ala | Asp | 815 | 820 | 825 |
| Ser | Arg | Leu | Leu | Ser | Pro | Ala | Cys | Pro | Ala | Pro | Lys | Glu | Val | Thr | 830 | 835 | 840 |
| Ala | Ala | Pro | Ala | Val | Ala | Val | Pro | Pro | Glu | Ala | Thr | Val | Ala | Ile | 845 | 850 | 855 |
| Thr | Thr | Ala | Leu | Ser | Lys | Ala | Gly | Pro | Ala | Ile | Pro | Thr | Pro | Ala | 860 | 865 | 870 |
| Val | Ser | Ser | Ala | Leu | Ala | Val | Ala | Val | Pro | Leu | Gly | Pro | Ile | Met | 875 | 880 | 885 |
| Ala | Val | Thr | Ala | Ala | Pro | Ala | Met | Val | Ala | Thr | Leu | Gly | Thr | Val | 890 | 895 | 900 |
| Thr | Lys | Asp | Gly | Lys | Thr | Asp | Ala | Pro | Pro | Glu | Gly | Ala | Ala | Leu | 905 | 910 | 915 |
| Asn | Gly | Pro | Val |     |     |     |     |     |     |     |     |     |     |     | 920 | 925 | 930 |

&lt;210&gt; 39

&lt;211&gt; 515

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2359526CD1

&lt;400&gt; 39

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ala | Asn | Met | Tyr | Arg | Val | Gly | Asp | Tyr | Val | Tyr | Phe | Glu | 1   | 5   | 10  | 15  |
| Asn | Ser | Ser | Ser | Asn | Pro | Tyr | Leu | Ile | Arg | Arg | Ile | Glu | Glu | Leu | 20  | 25  | 30  | 35  |
| Asn | Lys | Thr | Ala | Ser | Gly | Asn | Val | Glu | Ala | Lys | Val | Val | Cys | Phe | 35  | 40  | 45  | 50  |
| Tyr | Arg | Arg | Arg | Asp | Ile | Ser | Asn | Thr | Leu | Ile | Met | Leu | Ala | Asp | 50  | 55  | 60  | 65  |
| Lys | His | Ala | Lys | Glu | Ile | Glu | Glu | Glu | Ser | Glu | Thr | Thr | Val | Glu | 65  | 70  | 75  | 80  |
| Ala | Asp | Leu | Thr | Asp | Lys | Gln | Lys | His | Gln | Leu | Lys | His | Arg | Glu | 80  | 85  | 90  | 95  |
| Leu | Phe | Leu | Ser | Arg | Gln | Tyr | Glu | Ser | Leu | Pro | Ala | Thr | His | Ile | 95  | 100 | 105 | 110 |
| Arg | Gly | Lys | Cys | Ser | Val | Ala | Leu | Leu | Asn | Glu | Thr | Glu | Ser | Val | 110 | 115 | 120 |     |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Tyr | Leu | Asp | Lys | Glu | Asp | Thr | Phe | Phe | Tyr | Ser | Leu | Val |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Tyr | Asp | Pro | Ser | Leu | Lys | Thr | Leu | Leu | Ala | Asp | Lys | Gly | Glu | Ile |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Arg | Val | Gly | Pro | Arg | Tyr | Gln | Ala | Asp | Ile | Pro | Glu | Met | Leu | Leu |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Glu | Gly | Glu | Ser | Asp | Glu | Arg | Glu | Gln | Ser | Lys | Leu | Glu | Val | Lys |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Val | Trp | Asp | Pro | Asn | Ser | Pro | Leu | Thr | Asp | Arg | Gln | Ile | Asp | Gln |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Phe | Leu | Val | Val | Ala | Arg | Ala | Val | Gly | Thr | Phe | Ala | Arg | Ala | Leu |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Asp | Cys | Ser | Ser | Ser | Val | Arg | Gln | Pro | Ser | Leu | His | Met | Ser | Ala |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Ala | Ala | Ala | Ser | Arg | Asp | Ile | Thr | Leu | Phe | His | Ala | Met | Asp | Thr |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Leu | Tyr | Arg | His | Ser | Tyr | Asp | Leu | Ser | Ser | Ala | Ile | Ser | Val | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Val | Pro | Leu | Gly | Gly | Pro | Val | Leu | Cys | Arg | Asp | Glu | Met | Glu | Glu |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Trp | Ser | Ala | Ser | Glu | Ala | Ser | Leu | Phe | Glu | Glu | Ala | Leu | Glu | Lys |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Tyr | Gly | Lys | Asp | Phe | Asn | Asp | Ile | Arg | Gln | Asp | Phe | Leu | Pro | Trp |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Lys | Ser | Leu | Thr | Ser | Ile | Ile | Glu | Tyr | Tyr | Tyr | Met | Trp | Lys | Thr |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Thr | Asp | Arg | Tyr | Val | Gln | Gln | Lys | Arg | Leu | Lys | Ala | Ala | Glu | Ala |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Glu | Ser | Lys | Leu | Lys | Gln | Val | Tyr | Ile | Pro | Thr | Tyr | Ser | Lys | Pro |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Asn | Pro | Asn | Gln | Ile | Ser | Thr | Ser | Asn | Gly | Lys | Pro | Gly | Ala | Val |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Asn | Gly | Ala | Val | Gly | Thr | Thr | Phe | Gln | Pro | Gln | Asn | Pro | Leu | Leu |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Gly | Arg | Ala | Cys | Glu | Ser | Cys | Tyr | Ala | Thr | Gln | Ser | His | Gln | Trp |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Tyr | Ser | Trp | Gly | Pro | Pro | Asn | Met | Gln | Cys | Arg | Leu | Cys | Ala | Ile |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Cys | Trp | Leu | Tyr | Trp | Lys | Lys | Tyr | Gly | Gly | Leu | Lys | Met | Pro | Thr |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Gln | Ser | Glu | Glu | Glu | Lys | Leu | Ser | Pro | Ser | Pro | Thr | Thr | Glu | Asp |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Pro | Arg | Val | Arg | Ser | His | Val | Ser | Arg | Gln | Ala | Met | Gln | Gly | Met |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Pro | Val | Arg | Asn | Thr | Gly | Ser | Pro | Lys | Ser | Ala | Val | Lys | Thr | Arg |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Gln | Ala | Phe | Phe | Leu | His | Thr | Thr | Tyr | Phe | Thr | Lys | Phe | Ala | Arg |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Gln | Val | Cys | Lys | Asn | Thr | Leu | Arg | Leu | Arg | Gln | Ala | Ala | Arg | Arg |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Pro | Phe | Val | Ala | Ile | Asn | Tyr | Ala | Ala | Ile | Arg | Ala | Glu | Cys | Lys |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Met | Leu | Leu | Asn | Ser |     |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 515 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 40

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2456494CD1

&lt;400&gt; 40

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Asp | Glu | Leu | Val | Leu | Leu | Leu | His | Ala | Leu | Leu | Met | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| His | Arg | Ala | Leu | Ser | Ile | Glu | Asn | Ser | Gln | Leu | Met | Glu | Gln | Leu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Arg | Leu | Leu | Val | Cys | Glu | Arg | Ala | Ser | Leu | Leu | Arg | Gln | Val | Arg |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Pro | Pro | Ser | Cys | Pro | Val | Pro | Phe | Pro | Glu | Thr | Phe | Asn | Gly | Glu |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Ser | Ser | Arg | Leu | Pro | Glu | Phe | Ile | Val | Gln | Thr | Ala | Ser | Tyr | Met |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Leu | Val | Asn | Glu | Asn | Arg | Phe | Cys | Asn | Asp | Ala | Met | Lys | Val | Ala |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Phe | Leu | Ile | Ser | Leu | Leu | Thr | Gly | Glu | Ala | Glu | Glu | Trp | Val | Val |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Pro | Tyr | Ile | Glu | Met | Asp | Ser | Pro | Ile | Leu | Gly | Asp | Tyr | Arg | Ala |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Phe | Leu | Asp | Glu | Met | Lys | Gln | Cys | Phe | Gly | Trp | Asp | Asp | Asp | Glu |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Asp | Asp | Asp | Asp | Glu | Glu | Glu | Glu | Asp | Asp | Tyr |     |     |     |     |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     |     |

&lt;210&gt; 41

&lt;211&gt; 580

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2668536CD1

&lt;400&gt; 41

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Glu | Asn | Lys | Glu | Asn | Ser | Ser | Pro | Ser | Val | Thr | Ser | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Asn | Leu | Asp | His | Thr | Lys | Pro | Cys | Trp | Tyr | Trp | Asp | Lys | Lys | Asp |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Leu | Ala | His | Thr | Pro | Ser | Gln | Leu | Glu | Gly | Leu | Asp | Pro | Ala | Thr |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Glu | Ala | Arg | Tyr | Arg | Arg | Glu | Gly | Ala | Arg | Phe | Ile | Phe | Asp | Val |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Gly | Thr | Arg | Leu | Gly | Leu | His | Tyr | Asp | Thr | Leu | Ala | Thr | Gly | Ile |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Ile | Tyr | Phe | His | Arg | Phe | Tyr | Met | Phe | His | Ser | Phe | Lys | Gln | Phe |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Pro | Arg | Tyr | Val | Thr | Gly | Ala | Cys | Cys | Leu | Phe | Leu | Ala | Gly | Lys |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Val | Glu | Glu | Thr | Pro | Lys | Lys | Cys | Lys | Asp | Ile | Ile | Lys | Thr | Ala |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Arg | Ser | Leu | Leu | Asn | Asp | Val | Gln | Phe | Gly | Gln | Phe | Gly | Asp | Asp |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Pro | Lys | Glu | Glu | Val | Met | Val | Leu | Glu | Arg | Ile | Leu | Leu | Gln | Thr |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Ile | Lys | Phe | Asp | Leu | Gln | Val | Glu | His | Pro | Tyr | Gln | Phe | Leu | Leu |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Lys | Tyr | Ala | Lys | Gln | Leu | Lys | Gly | Asp | Lys | Asn | Lys | Ile | Gln | Lys |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Leu | Val | Gln | Met | Ala | Trp | Thr | Phe | Val | Asn | Asp | Ser | Leu | Cys | Thr |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Thr | Leu | Ser | Leu | Gln | Trp | Glu | Pro | Glu | Ile | Ile | Ala | Val | Ala | Val |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Met | Tyr | Leu | Ala | Gly | Arg | Leu | Cys | Lys | Phe | Glu | Ile | Gln | Glu | Trp |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Thr | Ser | Lys | Pro | Met | Tyr | Arg | Arg | Trp | Trp | Glu | Gln | Phe | Val | Gln |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Val | Pro | Val | Asp | Val | Leu | Glu | Asp | Ile | Cys | His | Gln | Ile | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Asp | Leu | Tyr | Ser | Gln | Gly | Lys | Gln | Gln | Met | Pro | His | His | Thr | Pro |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| His | Gln | Leu | Gln | Gln | Pro | Pro | Ser | Leu | Gln | Pro | Thr | Pro | Gln | Val |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Pro | Gln | Val | Gln | Gln | Ser | Gln | Pro | Ser | Gln | Ser | Ser | Glu | Pro | Ser |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Gln | Pro | Gln | Gln | Lys | Asp | Pro | Gln | Gln | Pro | Ala | Gln | Gln | Gln | Gln |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Pro | Ala | Gln | Gln | Pro | Lys | Lys | Pro | Ser | Pro | Gln | Pro | Ser | Ser | Pro |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Arg | Gln | Val | Lys | Arg | Ala | Val | Val | Val | Ser | Pro | Lys | Glu | Glu | Asn |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Lys | Ala | Ala | Glu | Pro | Pro | Pro | Pro | Lys | Ile | Pro | Lys | Ile | Glu | Thr |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Thr | His | Pro | Pro | Leu | Pro | Pro | Ala | His | Pro | Pro | Pro | Asp | Arg | Lys |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Pro | Pro | Leu | Ala | Ala | Ala | Leu | Gly | Glu | Ala | Glu | Pro | Pro | Gly | Pro |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Val | Asp | Ala | Thr | Asp | Leu | Pro | Lys | Val | Gln | Ile | Pro | Pro | Pro | Ala |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| His | Pro | Ala | Pro | Val | His | Gln | Pro | Pro | Pro | Leu | Pro | His | Arg | Pro |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Pro | Pro | Pro | Pro | Pro | Ser | Ser | Tyr | Met | Thr | Gly | Met | Ser | Thr | Thr |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Ser | Ser | Tyr | Met | Ser | Gly | Glu | Gly | Tyr | Gln | Ser | Leu | Gln | Ser | Met |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Met | Lys | Thr | Glu | Gly | Pro | Ser | Tyr | Gly | Ala | Leu | Pro | Pro | Ala | Tyr |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Gly | Pro | Pro | Ala | His | Leu | Pro | Tyr | His | Pro | His | Val | Tyr | Pro | Pro |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Asn | Pro | Pro | Pro | Pro | Pro | Val | Pro | Pro | Pro | Pro | Ala | Ser | Phe | Pro |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| His | Leu | Pro | Ser | His | Pro | Leu | Leu | Leu | Ala | Thr | Pro | Asn | Pro | His |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Pro | Pro | Thr | Thr | Pro | Thr | Ser | His | Pro | His | Pro | His | Ala | Ser | Arg |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Leu | Pro | Thr | Gln | Ser | Pro | Leu | Ile | Leu | Leu | Gln | Gly | Trp | Ala | Cys |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |
| Arg | Gln | Pro | Ala | Thr | His | Leu | Leu | Pro | Ser | Pro | Leu | Glu | Asp | Ser |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |
| Leu | Leu | Cys | Pro | Arg | Pro | Phe | Pro | His | Pro | Ala | Cys | Leu | Gln | Leu |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |
| Glu | Gly | Leu | Gly | Arg | Ala | Ala | Trp | Met | Arg |     |     |     |     |     |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     |     |

&lt;210&gt; 42

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2683225CD1

&lt;400&gt; 42

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Glu | Pro | Asp | Tyr | Ile | Glu | Asp | Asp | Asn | Pro | Glu | Leu | Ile |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Arg | Pro | Gln | Lys | Leu | Ile | Asn | Pro | Val | Lys | Thr | Ser | Arg | Asn | His |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Gln | Asp | Leu | His | Arg | Glu | Leu | Leu | Met | Asn | Gln | Lys | Arg | Gly | Leu |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ala | Pro | Gln | Asn | Lys | Pro | Glu | Leu | Gln | Lys | Val | Met | Glu | Lys | Arg |

|                     |                 |                     |     |  |     |
|---------------------|-----------------|---------------------|-----|--|-----|
|                     | 50              |                     | 55  |  | 60  |
| Lys Arg Asp Gln Val | Ile Lys Gln Lys | Glu Glu Glu Ala Gln | Lys |  |     |
|                     | 65              |                     | 70  |  | 75  |
| Lys Lys Ser Asp Leu | Glu Ile Glu Leu | Leu Lys Arg Gln Gln | Lys |  |     |
|                     | 80              |                     | 85  |  | 90  |
| Leu Glu Gln Leu Glu | Leu Glu Lys Gln | Lys Leu Gln Glu Glu | Gln |  |     |
|                     | 95              |                     | 100 |  | 105 |
| Glu Asn Ala Pro Glu | Phe Val Lys Val | Lys Gly Asn Leu Arg | Arg |  |     |
|                     | 110             |                     | 115 |  | 120 |
| Thr Gly Gln Glu Val | Ala Gln Ala Gln | Glu Ser             |     |  |     |
|                     | 125             |                     | 130 |  |     |

&lt;210&gt; 43

&lt;211&gt; 812

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2797839CD1

&lt;400&gt; 43

|                     |                 |                     |     |  |  |
|---------------------|-----------------|---------------------|-----|--|--|
| Met Gly Arg Lys Leu | Asp Pro Thr Lys | Glu Lys Arg Gly Pro | Gly |  |  |
| 1                   | 5               | 10                  | 15  |  |  |
| Arg Lys Ala Arg Lys | Gln Lys Gly Ala | Glu Thr Glu Leu Val | Arg |  |  |
|                     | 20              | 25                  | 30  |  |  |
| Phe Leu Pro Ala Val | Ser Asp Glu Asn | Ser Lys Arg Leu Ser | Ser |  |  |
|                     | 35              | 40                  | 45  |  |  |
| Arg Ala Arg Lys Arg | Ala Ala Lys Arg | Arg Leu Gly Ser Val | Glu |  |  |
|                     | 50              | 55                  | 60  |  |  |
| Ala Pro Lys Thr Asn | Lys Ser Pro Glu | Ala Lys Pro Leu Pro | Gly |  |  |
|                     | 65              | 70                  | 75  |  |  |
| Lys Leu Pro Lys Gly | Ile Ser Ala Gly | Ala Val Gln Thr Ala | Gly |  |  |
|                     | 80              | 85                  | 90  |  |  |
| Lys Lys Gly Pro Gln | Ser Leu Phe Asn | Ala Pro Arg Gly Lys | Lys |  |  |
|                     | 95              | 100                 | 105 |  |  |
| Arg Pro Ala Pro Gly | Ser Asp Glu Glu | Glu Glu Glu Glu Asp | Ser |  |  |
|                     | 110             | 115                 | 120 |  |  |
| Glu Glu Asp Gly Met | Val Asn His Gly | Asp Leu Trp Gly Ser | Glu |  |  |
|                     | 125             | 130                 | 135 |  |  |
| Asp Asp Ala Asp Thr | Val Asp Asp Tyr | Gly Ala Asp Ser Asn | Ser |  |  |
|                     | 140             | 145                 | 150 |  |  |
| Glu Asp Glu Glu Glu | Gly Glu Ala Leu | Leu Pro Ile Glu Arg | Ala |  |  |
|                     | 155             | 160                 | 165 |  |  |
| Ala Arg Lys Gln Lys | Ala Arg Glu Ala | Ala Ala Gly Ile Gln | Trp |  |  |
|                     | 170             | 175                 | 180 |  |  |
| Ser Glu Glu Glu Thr | Glu Asp Glu Glu | Glu Glu Lys Glu Val | Thr |  |  |
|                     | 185             | 190                 | 195 |  |  |
| Pro Glu Ser Gly Pro | Pro Lys Val Glu | Glu Ala Asp Gly Gly | Leu |  |  |
|                     | 200             | 205                 | 210 |  |  |
| Gln Ile Asn Val Asp | Glu Glu Pro Phe | Val Leu Pro Pro Ala | Gly |  |  |
|                     | 215             | 220                 | 225 |  |  |
| Glu Met Glu Gln Asp | Ala Gln Ala Pro | Asp Leu Gln Arg Val | His |  |  |
|                     | 230             | 235                 | 240 |  |  |
| Lys Arg Ile Gln Asp | Ile Val Gly Ile | Leu Arg Asp Phe Gly | Ala |  |  |
|                     | 245             | 250                 | 255 |  |  |
| Gln Arg Glu Glu Gly | Arg Ser Arg Ser | Glu Tyr Leu Asn Arg | Leu |  |  |
|                     | 260             | 265                 | 270 |  |  |
| Lys Lys Asp Leu Ala | Ile Tyr Tyr Ser | Tyr Gly Asp Phe Leu | Leu |  |  |
|                     | 275             | 280                 | 285 |  |  |
| Gly Lys Leu Met Asp | Leu Phe Pro Leu | Ser Glu Leu Val Glu | Phe |  |  |
|                     | 290             | 295                 | 300 |  |  |
| Leu Glu Ala Asn Glu | Val Pro Arg Pro | Val Thr Leu Arg Thr | Asn |  |  |
|                     | 305             | 310                 | 315 |  |  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Lys | Thr | Arg | Arg | Arg | Asp | Leu | Ala | Gln | Ala | Leu | Ile | Asn |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Arg | Gly | Val | Asn | Leu | Asp | Pro | Leu | Gly | Lys | Trp | Ser | Lys | Thr | Gly |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Leu | Val | Val | Tyr | Asp | Ser | Ser | Val | Pro | Ile | Gly | Ala | Thr | Pro | Glu |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Tyr | Leu | Ala | Gly | His | Tyr | Met | Leu | Gln | Gly | Ala | Ser | Ser | Met | Leu |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Pro | Val | Met | Ala | Leu | Ala | Pro | Gln | Glu | His | Glu | Arg | Ile | Leu | Asp |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Met | Cys | Cys | Ala | Pro | Gly | Gly | Lys | Thr | Ser | Tyr | Met | Ala | Gln | Leu |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Met | Lys | Asn | Thr | Gly | Val | Ile | Leu | Ala | Asn | Asp | Ala | Asn | Ala | Glu |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Arg | Leu | Lys | Ser | Val | Val | Gly | Asn | Leu | His | Arg | Leu | Gly | Val | Thr |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Asn | Thr | Ile | Ile | Ser | His | Tyr | Asp | Gly | Arg | Gln | Phe | Pro | Lys | Val |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Val | Gly | Gly | Phe | Asp | Arg | Val | Leu | Leu | Asp | Ala | Pro | Cys | Ser | Gly |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Thr | Gly | Val | Ile | Ser | Lys | Asp | Pro | Ala | Val | Lys | Thr | Asn | Lys | Asp |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Glu | Lys | Asp | Ile | Leu | Arg | Cys | Ala | His | Leu | Gln | Lys | Glu | Leu | Leu |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Leu | Ser | Ala | Ile | Asp | Ser | Val | Asn | Ala | Thr | Ser | Lys | Thr | Gly | Gly |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Tyr | Leu | Val | Tyr | Cys | Thr | Cys | Ser | Ile | Thr | Val | Glu | Glu | Asn | Glu |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Trp | Val | Val | Asp | Tyr | Ala | Leu | Lys | Lys | Arg | Asn | Val | Arg | Leu | Val |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |
| Pro | Thr | Gly | Leu | Asp | Phe | Gly | Gln | Glu | Gly | Phe | Thr | Arg | Phe | Arg |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |
| Glu | Arg | Arg | Phe | His | Pro | Ser | Leu | Arg | Ser | Thr | Arg | Arg | Phe | Tyr |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |
| Pro | His | Thr | His | Asn | Met | Asp | Gly | Phe | Phe | Ile | Ala | Lys | Phe | Lys |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |
| Lys | Phe | Ser | Asn | Ser | Ile | Pro | Gln | Ser | Gln | Thr | Gly | Asn | Ser | Glu |
|     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |
| Thr | Ala | Thr | Pro | Thr | Asn | Val | Asp | Leu | Pro | Gln | Val | Ile | Pro | Lys |
|     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |
| Ser | Glu | Asn | Ser | Ser | Gln | Pro | Ala | Lys | Lys | Ala | Lys | Gly | Ala | Ala |
|     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |
| Lys | Thr | Lys | Gln | Gln | Leu | Gln | Lys | Gln | Gln | His | Pro | Lys | Lys | Ala |
|     |     |     |     | 635 |     |     |     |     | 640 |     |     |     |     | 645 |
| Ser | Phe | Gln | Lys | Leu | Asn | Gly | Ile | Ser | Lys | Gly | Ala | Asp | Ser | Glu |
|     |     |     |     | 650 |     |     |     |     | 655 |     |     |     |     | 660 |
| Leu | Ser | Thr | Val | Pro | Ser | Val | Thr | Lys | Thr | Gln | Ala | Ser | Ser | Ser |
|     |     |     |     | 665 |     |     |     |     | 670 |     |     |     |     | 675 |
| Phe | Gln | Asp | Ser | Ser | Gln | Pro | Ala | Gly | Lys | Ala | Glu | Gly | Ile | Arg |
|     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |     | 690 |
| Glu | Pro | Lys | Val | Thr | Gly | Lys | Leu | Lys | Gln | Arg | Ser | Pro | Lys | Leu |
|     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     | 705 |
| Gln | Ser | Ser | Lys | Lys | Val | Ala | Phe | Leu | Arg | Gln | Asn | Ala | Pro | Pro |
|     |     |     |     | 710 |     |     |     |     | 715 |     |     |     |     | 720 |
| Lys | Gly | Thr | Asp | Thr | Gln | Thr | Pro | Ala | Val | Leu | Ser | Pro | Ser | Lys |
|     |     |     |     | 725 |     |     |     |     | 730 |     |     |     |     | 735 |
| Thr | Gln | Ala | Thr | Leu | Lys | Pro | Lys | Asp | His | His | Gln | Pro | Leu | Gly |
|     |     |     |     | 740 |     |     |     |     | 745 |     |     |     |     | 750 |
| Arg | Ala | Lys | Gly | Val | Glu | Lys | Gln | Gln | Leu | Pro | Glu | Gln | Pro | Phe |
|     |     |     |     | 755 |     |     |     |     | 760 |     |     |     |     | 765 |
| Glu | Lys | Ala | Ala | Phe | Gln | Lys | Gln | Asn | Asp | Thr | Pro | Lys | Gly | Pro |
|     |     |     |     | 770 |     |     |     |     | 775 |     |     |     |     | 780 |
| Gln | Pro | Pro | Thr | Val | Ser | Pro | Ile | Arg | Ser | Ser | Arg | Pro | Pro | Pro |

|   |     |  |     |  |     |
|---|-----|--|-----|--|-----|
|   | 785 |  | 790 |  | 795 |
| Ala Lys Arg Lys Lys Ser Gln Ser Arg Gly Asn Ser Gln Leu Leu |     |  |     |  |     |
|   | 800 |  | 805 |  | 810 |
| Leu Ser   |     |  |     |  |     |

<210> 44  
 <211> 537  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2959521CD1

<400> 44

|   |  |     |
|---|--|-----|
| Met Arg Gly Val Gly Ala Arg Val Tyr Ala Asp Ala Pro Ala Lys |  |     |
| 1 5 10  |  | 15  |
| Leu Leu Leu Pro Pro Pro Ala Ala Trp Asp Leu Ala Val Arg Leu |  |     |
| 20 25   |  | 30  |
| Arg Gly Ala Glu Ala Ala Ser Glu Arg Gln Val Tyr Ser Val Thr |  |     |
| 35 40   |  | 45  |
| Met Lys Leu Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu |  |     |
| 50 55   |  | 60  |
| Leu Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala |  |     |
| 65 70   |  | 75  |
| Ser Ser Leu Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln |  |     |
| 80 85   |  | 90  |
| Asp Leu Ile His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln |  |     |
| 95 100  |  | 105 |
| Gln Leu Lys Ala Leu Leu Asn His Leu Asp Val Gly Val Gly Arg |  |     |
| 110 115   |  | 120 |
| Gly Asn Val Thr Gln His Val Gln Gly His Arg Asn Leu Ser Thr |  |     |
| 125 130   |  | 135 |
| Cys Phe Ser Ser Gly Asp Leu Phe Thr Ala His Asn Phe Ser Glu |  |     |
| 140 145   |  | 150 |
| Gln Ser Arg Ile Gly Ser Ser Glu Leu Gln Glu Phe Cys Pro Thr |  |     |
| 155 160   |  | 165 |
| Ile Leu Gln Gln Leu Asp Ser Arg Ala Cys Thr Ser Glu Asn Gln |  |     |
| 170 175   |  | 180 |
| Glu Asn Glu Glu Asn Glu Gln Thr Glu Glu Gly Arg Pro Ser Ala |  |     |
| 185 190   |  | 195 |
| Val Glu Val Trp Gly Tyr Gly Leu Leu Cys Val Thr Val Ile Ser |  |     |
| 200 205   |  | 210 |
| Leu Cys Ser Leu Leu Gly Ala Ser Val Val Pro Phe Met Lys Lys |  |     |
| 215 220   |  | 225 |
| Thr Phe Tyr Lys Arg Leu Leu Leu Tyr Phe Ile Ala Leu Ala Ile |  |     |
| 230 235   |  | 240 |
| Gly Thr Leu Tyr Ser Asn Ala Leu Phe Gln Leu Ile Pro Glu Ala |  |     |
| 245 250   |  | 255 |
| Phe Gly Phe Asn Pro Leu Glu Asp Tyr Tyr Val Ser Lys Ser Ala |  |     |
| 260 265   |  | 270 |
| Val Val Phe Gly Gly Phe Tyr Leu Phe Phe Phe Thr Glu Lys Ile |  |     |
| 275 280   |  | 285 |
| Leu Lys Ile Leu Leu Lys Gln Lys Asn Glu His His His Gly His |  |     |
| 290 295   |  | 300 |
| Ser His Tyr Ala Ser Glu Ser Leu Pro Ser Lys Lys Asp Gln Glu |  |     |
| 305 310   |  | 315 |
| Glu Gly Val Met Glu Lys Leu Gln Asn Gly Asp Leu Asp His Met |  |     |
| 320 325   |  | 330 |
| Ile Pro Gln His Cys Ser Ser Glu Leu Asp Gly Lys Ala Pro Met |  |     |
| 335 340   |  | 345 |
| Val Asp Glu Lys Val Ile Val Gly Ser Leu Ser Val Gln Asp Leu |  |     |
| 350 355   |  | 360 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Gln | Ala | Ser | Gln | Ser | Ala | Cys | Tyr | Trp | Leu | Lys | Gly | Val | Arg | Tyr |  |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |  |
| Ser | Asp | Ile | Gly | Thr | Leu | Ala | Trp | Met | Ile | Thr | Leu | Ser | Asp | Gly |  |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |  |
| Leu | His | Asn | Phe | Ile | Asp | Gly | Leu | Ala | Ile | Gly | Ala | Ser | Phe | Thr |  |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |  |
| Val | Ser | Val | Phe | Gln | Gly | Ile | Ser | Thr | Ser | Val | Ala | Ile | Leu | Cys |  |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |  |
| Glu | Glu | Phe | Pro | His | Glu | Leu | Gly | Asp | Phe | Val | Ile | Leu | Leu | Asn |  |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |  |
| Ala | Gly | Met | Ser | Ile | Gln | Gln | Ala | Leu | Phe | Phe | Asn | Phe | Leu | Ser |  |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |  |
| Ala | Cys | Cys | Cys | Tyr | Leu | Gly | Leu | Ala | Phe | Gly | Ile | Leu | Ala | Gly |  |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |  |
| Ser | His | Phe | Ser | Ala | Asn | Trp | Ile | Phe | Ala | Leu | Ala | Gly | Gly | Met |  |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |  |
| Phe | Leu | Tyr | Ile | Ser | Leu | Ala | Asp | Met | Phe | Pro | Glu | Met | Asn | Glu |  |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |  |
| Val | Cys | Gln | Glu | Asp | Glu | Arg | Lys | Gly | Ser | Ile | Leu | Ile | Pro | Phe |  |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |  |
| Ile | Ile | Gln | Asn | Leu | Gly | Leu | Leu | Thr | Gly | Phe | Thr | Ile | Met | Val |  |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |  |
| Val | Leu | Thr | Met | Tyr | Ser | Gly | Gln | Ile | Gln | Ile | Gly |     |     |     |  |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     |     |  |

&lt;210&gt; 45

&lt;211&gt; 584

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3082014CD1

&lt;400&gt; 45

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Leu | Trp | Gly | Gly | Arg | Val | Gly | Leu | Thr | Gly | Val | Phe | Gln | Ser |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |
| Leu | Ser | Tyr | Arg | Gly | Lys | Cys | Ser | Val | Thr | Leu | Leu | Asn | Glu | Thr |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |
| Asp | Ile | Leu | Ser | Gln | Tyr | Leu | Glu | Lys | Glu | Asp | Cys | Phe | Phe | Tyr |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |
| Ser | Leu | Val | Phe | Asp | Pro | Val | Gln | Lys | Thr | Leu | Leu | Ala | Asp | Gln |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |
| Gly | Glu | Ile | Arg | Val | Gly | Cys | Lys | Tyr | Gln | Ala | Glu | Ile | Pro | Asp |  |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |
| Arg | Leu | Val | Glu | Gly | Glu | Ser | Asp | Asn | Arg | Asn | Gln | Gln | Lys | Met |  |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |  |
| Glu | Met | Lys | Val | Trp | Asp | Pro | Asp | Asn | Pro | Leu | Thr | Asp | Arg | Gln |  |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |  |
| Ile | Asp | Gln | Phe | Leu | Val | Val | Ala | Arg | Ala | Val | Gly | Thr | Phe | Ala |  |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |  |
| Arg | Ala | Leu | Asp | Cys | Ser | Ser | Ser | Ile | Arg | Gln | Pro | Ser | Leu | His |  |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |  |
| Met | Ser | Ala | Ala | Ala | Ala | Ser | Arg | Asp | Ile | Thr | Leu | Phe | His | Ala |  |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |  |
| Met | Asp | Thr | Leu | Gln | Arg | Asn | Gly | Tyr | Asp | Leu | Ala | Lys | Ala | Met |  |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |  |
| Ser | Thr | Leu | Val | Pro | Gln | Gly | Gly | Pro | Val | Leu | Cys | Arg | Asp | Glu |  |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |  |
| Met | Glu | Glu | Trp | Ser | Ala | Ser | Glu | Ala | Met | Leu | Phe | Glu | Glu | Ala |  |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |  |
| Leu | Glu | Lys | Tyr | Gly | Lys | Asp | Phe | Asn | Asp | Ile | Arg | Gln | Asp | Phe |  |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |  |
| Leu | Pro | Trp | Lys | Ser | Leu | Ala | Ser | Ile | Val | Gln | Phe | Tyr | Tyr | Met |  |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Lys | Thr | Thr | Asp | Arg | Tyr | Ile | Gln | Gln | Lys | Arg | Leu | Lys | Ala | 215 | 220 | 225 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 230 | 235 | 240 |
| Ala | Glu | Ala | Asp | Ser | Lys | Leu | Lys | Gln | Val | Tyr | Ile | Pro | Thr | Tyr | 245 | 250 | 255 |
| Thr | Lys | Pro | Asn | Pro | Asn | Gln | Ile | Ile | Ser | Val | Gly | Ser | Lys | Pro | 260 | 265 | 270 |
| Gly | Met | Asn | Gly | Ala | Gly | Phe | Gln | Lys | Gly | Leu | Thr | Cys | Glu | Ser | 275 | 280 | 285 |
| Cys | His | Thr | Thr | Gln | Ser | Ala | Gln | Trp | Tyr | Ala | Trp | Gly | Pro | Pro | 290 | 295 | 300 |
| Asn | Met | Gln | Cys | Arg | Leu | Cys | Ala | Ser | Cys | Trp | Ile | Tyr | Trp | Lys | 305 | 310 | 315 |
| Lys | Tyr | Gly | Gly | Leu | Lys | Thr | Pro | Thr | Gln | Leu | Glu | Gly | Ala | Thr | 320 | 325 | 330 |
| Arg | Gly | Thr | Thr | Glu | Pro | His | Ser | Arg | Gly | His | Leu | Ser | Arg | Pro | 335 | 340 | 345 |
| Glu | Ala | Gln | Ser | Leu | Ser | Pro | Tyr | Thr | Thr | Ser | Ala | Asn | Arg | Ala | 350 | 355 | 360 |
| Lys | Leu | Leu | Ala | Lys | Asn | Arg | Gln | Thr | Phe | Leu | Leu | Gln | Thr | Thr | 365 | 370 | 375 |
| Lys | Leu | Thr | Arg | Leu | Ala | Arg | Arg | Met | Cys | Arg | Asp | Leu | Leu | Gln | 380 | 385 | 390 |
| Pro | Arg | Arg | Ala | Ala | Arg | Arg | Pro | Tyr | Ala | Pro | Ile | Asn | Ala | Asn | 395 | 400 | 405 |
| Ala | Ile | Lys | Ala | Glu | Cys | Ser | Ile | Arg | Leu | Pro | Lys | Ala | Ala | Lys | 410 | 415 | 420 |
| Thr | Pro | Leu | Lys | Ile | His | Pro | Leu | Val | Arg | Leu | Pro | Leu | Ala | Thr | 425 | 430 | 435 |
| Ile | Val | Lys | Asp | Leu | Val | Ala | Gln | Ala | Pro | Leu | Lys | Pro | Lys | Thr | 440 | 445 | 450 |
| Pro | Arg | Gly | Thr | Lys | Thr | Pro | Ile | Asn | Arg | Asn | Gln | Leu | Ser | Gln | 455 | 460 | 465 |
| Asn | Arg | Gly | Leu | Gly | Gly | Ile | Met | Val | Lys | Arg | Ala | Tyr | Glu | Thr | 470 | 475 | 480 |
| Met | Ala | Gly | Ala | Gly | Val | Pro | Phe | Ser | Ala | Asn | Gly | Arg | Pro | Leu | 485 | 490 | 495 |
| Ala | Ser | Gly | Ile | Arg | Ser | Ser | Ser | Gln | Pro | Ala | Ala | Lys | Arg | Gln | 500 | 505 | 510 |
| Lys | Leu | Asn | Pro | Ala | Asp | Ala | Pro | Asn | Pro | Val | Val | Phe | Val | Ala | 515 | 520 | 525 |
| Thr | Lys | Asp | Thr | Arg | Ala | Leu | Arg | Lys | Ala | Leu | Thr | His | Leu | Glu | 530 | 535 | 540 |
| Met | Arg | Arg | Ala | Ala | Arg | Arg | Pro | Asn | Leu | Pro | Leu | Lys | Val | Lys | 545 | 550 | 555 |
| Pro | Thr | Leu | Ile | Ala | Val | Arg | Pro | Pro | Val | Pro | Leu | Pro | Ala | Pro | 560 | 565 | 570 |
| Ser | His | Pro | Ala | Ser | Thr | Asn | Glu | Pro | Ile | Val | Leu | Glu | Asp |     | 575 | 580 |     |

&lt;210&gt; 46

&lt;211&gt; 425

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3520701CD1

&lt;400&gt; 46

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| Met | Ala | Gly | Ala | Glu | Gly | Ala | Ala | Gly | Arg | Gln | Ser | Glu | Leu | Glu | 1  | 5  | 10 | 15 |
| Pro | Val | Val | Ser | Leu | Val | Asp | Val | Leu | Glu | Glu | Asp | Glu | Glu | Leu | 20 | 25 | 30 |    |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Glu | Ala | Cys | Ala | Val | Leu | Gly | Gly | Ser | Asp | Ser | Glu | Lys |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Cys | Ser | Tyr | Ser | Gln | Gly | Ser | Val | Lys | Arg | Gln | Ala | Leu | Tyr | Ala |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Cys | Ser | Thr | Cys | Thr | Pro | Glu | Gly | Glu | Glu | Pro | Ala | Gly | Ile | Cys |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Leu | Ala | Cys | Ser | Tyr | Glu | Cys | His | Gly | Ser | His | Lys | Leu | Phe | Glu |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Leu | Tyr | Thr | Lys | Arg | Asn | Phe | Arg | Cys | Asp | Cys | Gly | Asn | Ser | Lys |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Phe | Lys | Asn | Leu | Glu | Cys | Lys | Leu | Leu | Pro | Asp | Lys | Ala | Lys | Val |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Asn | Ser | Gly | Asn | Lys | Tyr | Asn | Asp | Asn | Phe | Phe | Gly | Leu | Tyr | Cys |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Ile | Cys | Lys | Arg | Pro | Tyr | Pro | Asp | Pro | Glu | Asp | Glu | Ile | Pro | Asp |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Glu | Met | Ile | Gln | Cys | Val | Val | Cys | Glu | Asp | Trp | Phe | His | Gly | Arg |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| His | Leu | Gly | Ala | Ile | Pro | Pro | Glu | Ser | Gly | Asp | Phe | Gln | Glu | Met |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Val | Cys | Gln | Ala | Cys | Met | Lys | Arg | Cys | Ser | Phe | Leu | Trp | Ala | Tyr |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Ala | Ala | Gln | Leu | Ala | Val | Thr | Lys | Ile | Ser | Thr | Glu | Asp | Asp | Gly |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Leu | Val | Arg | Asn | Ile | Asp | Gly | Ile | Gly | Asp | Gln | Glu | Val | Ile | Lys |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Pro | Glu | Asn | Gly | Glu | His | Gln | Asp | Ser | Thr | Leu | Lys | Glu | Asp | Val |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Pro | Glu | Gln | Gly | Lys | Asp | Asp | Val | Arg | Glu | Val | Lys | Val | Glu | Gln |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Asn | Ser | Glu | Pro | Cys | Ala | Gly | Ser | Ser | Ser | Glu | Ser | Asp | Leu | Gln |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Thr | Val | Phe | Lys | Asn | Glu | Ser | Leu | Asn | Ala | Glu | Ser | Lys | Ser | Gly |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Cys | Lys | Leu | Gln | Glu | Leu | Lys | Ala | Lys | Gln | Leu | Ile | Lys | Lys | Asp |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Thr | Ala | Thr | Tyr | Trp | Pro | Leu | Asn | Trp | Arg | Ser | Lys | Leu | Cys | Thr |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Cys | Gln | Asp | Cys | Met | Lys | Met | Tyr | Gly | Asp | Leu | Asp | Val | Leu | Phe |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Leu | Thr | Asp | Glu | Tyr | Asp | Thr | Val | Leu | Ala | Tyr | Glu | Asn | Lys | Gly |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Lys | Ile | Ala | Gln | Ala | Thr | Asp | Arg | Ser | Asp | Pro | Leu | Met | Asp | Thr |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Leu | Ser | Ser | Met | Asn | Arg | Val | Gln | Gln | Val | Glu | Leu | Ile | Cys | Glu |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Tyr | Asn | Asp | Leu | Lys | Thr | Glu | Leu | Lys | Asp | Tyr | Leu | Lys | Arg | Phe |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Ala | Asp | Glu | Gly | Thr | Val | Val | Lys | Arg | Glu | Asp | Ile | Gln | Gln | Phe |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Phe | Glu | Glu | Phe | Gln | Ser | Lys | Lys | Arg | Arg | Arg | Val | Asp | Gly | Met |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Gln | Tyr | Tyr | Cys | Ser |     |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 425 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 47

&lt;211&gt; 255

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4184320CD1

&lt;400&gt; 47

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Tyr | Val | Arg | Val | Ser | Phe | Asp | Thr | Lys | Pro | Asp | Leu | Leu | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| His | Leu | Met | Thr | Lys | Glu | Trp | Gln | Leu | Glu | Leu | Pro | Lys | Leu | Leu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Ile | Ser | Val | His | Gly | Gly | Leu | Gln | Asn | Phe | Glu | Leu | Gln | Pro | Lys |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Leu | Lys | Gln | Val | Phe | Gly | Lys | Gly | Leu | Ile | Lys | Ala | Ala | Met | Thr |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Thr | Gly | Ala | Trp | Ile | Phe | Thr | Gly | Gly | Val | Asn | Thr | Gly | Val | Ile |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Arg | His | Val | Gly | Asp | Ala | Leu | Lys | Asp | His | Ala | Ser | Lys | Ser | Arg |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Gly | Lys | Ile | Cys | Thr | Ile | Gly | Ile | Ala | Pro | Trp | Gly | Ile | Val | Glu |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Asn | Gln | Glu | Asp | Leu | Ile | Gly | Arg | Asp | Val | Val | Arg | Pro | Tyr | Gln |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Thr | Met | Ser | Asn | Pro | Met | Ser | Lys | Leu | Thr | Val | Leu | Asn | Ser | Met |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| His | Ser | His | Phe | Ile | Leu | Ala | Asp | Asn | Gly | Thr | Thr | Gly | Lys | Tyr |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Gly | Ala | Glu | Val | Lys | Leu | Arg | Arg | Gln | Leu | Glu | Lys | His | Ile | Ser |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Leu | Gln | Lys | Ile | Asn | Thr | Arg | Cys | Leu | Pro | Phe | Phe | Ser | Leu | Asp |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ser | Arg | Leu | Phe | Tyr | Ser | Phe | Trp | Gly | Ser | Cys | Gln | Leu | Asp | Ser |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Val | Gly | Ile | Gly | Gln | Gly | Val | Pro | Val | Val | Ala | Leu | Ile | Val | Glu |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Gly | Gly | Pro | Asn | Val | Ile | Ser | Ile | Val | Leu | Glu | Tyr | Leu | Arg | Asp |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Thr | Pro | Pro | Val | Pro | Val | Val | Val | Cys | Asp | Gly | Ser | Gly | Arg | Ala |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Asp | Ile | Leu | Ala | Phe | Gly | His | Lys | Tyr | Ser | Glu | Glu | Gly | Gly |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |

&lt;210&gt; 48

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4764233CD1

&lt;400&gt; 48

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Trp | Arg | Gly | Arg | Ser | Thr | Tyr | Arg | Pro | Arg | Pro | Arg | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Ser | Leu | Gln | Pro | Pro | Glu | Leu | Ile | Gly | Ala | Met | Leu | Glu | Pro | Thr |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Asp | Glu | Glu | Pro | Lys | Glu | Glu | Lys | Pro | Pro | Thr | Lys | Ser | Arg | Asn |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Pro | Thr | Pro | Asp | Gln | Lys | Arg | Glu | Asp | Asp | Gln | Gly | Ala | Ala | Glu |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Ile | Gln | Val | Pro | Asp | Leu | Glu | Ala | Asp | Leu | Gln | Glu | Leu | Cys | Gln |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Thr | Lys | Thr | Gly | Asp | Gly | Cys | Glu | Gly | Gly | Thr | Asp | Val | Lys | Gly |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Lys | Ile | Leu | Pro | Lys | Ala | Glu | His | Phe | Lys | Met | Pro | Glu | Ala | Gly |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Glu | Gly | Lys | Ser | Gln | Val |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 110 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 49

<211> 422  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 4817352CD1

<400> 49

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Lys | Ala | Lys | Val | Pro | Ala | Ser | Lys | Arg | Ala | Pro | Ser | Ser | 1   | 5   | 10  | 15  |
| Pro | Val | Ala | Lys | Pro | Gly | Pro | Val | Lys | Thr | Leu | Thr | Arg | Lys | Lys | 20  | 25  | 30  | 35  |
| Asn | Lys | Lys | Lys | Lys | Arg | Phe | Trp | Lys | Ser | Lys | Ala | Arg | Glu | Val | 40  | 45  | 50  | 55  |
| Ser | Lys | Lys | Pro | Ala | Ser | Gly | Pro | Gly | Ala | Val | Val | Arg | Pro | Pro | 60  | 65  | 70  | 75  |
| Lys | Ala | Pro | Glu | Asp | Phe | Ser | Gln | Asn | Trp | Lys | Ala | Leu | Gln | Glu | 80  | 85  | 90  | 95  |
| Trp | Leu | Leu | Lys | Gln | Lys | Ser | Gln | Ala | Pro | Glu | Lys | Pro | Leu | Val | 100 | 105 | 110 | 115 |
| Ile | Ser | Gln | Met | Gly | Ser | Lys | Lys | Lys | Pro | Lys | Ile | Ile | Gln | Gln | 120 | 125 | 130 | 135 |
| Asn | Lys | Lys | Glu | Thr | Ser | Pro | Gln | Val | Lys | Gly | Glu | Glu | Met | Pro | 140 | 145 | 150 | 155 |
| Ala | Gly | Lys | Asp | Gln | Glu | Ala | Ser | Arg | Gly | Ser | Val | Pro | Ser | Gly | 160 | 165 | 170 | 175 |
| Ser | Lys | Met | Asp | Arg | Arg | Ala | Pro | Val | Pro | Arg | Thr | Lys | Ala | Ser | 180 | 185 | 190 | 195 |
| Gly | Thr | Glu | His | Asn | Lys | Lys | Gly | Thr | Lys | Glu | Arg | Thr | Asn | Gly | 200 | 205 | 210 | 215 |
| Asp | Ile | Val | Pro | Glu | Arg | Gly | Asp | Ile | Glu | His | Lys | Lys | Arg | Lys | 220 | 225 | 230 | 235 |
| Ala | Lys | Glu | Ala | Ala | Pro | Ala | Pro | Pro | Thr | Glu | Glu | Asp | Ile | Trp | 240 | 245 | 250 | 255 |
| Phe | Asp | Asp | Val | Asp | Pro | Ala | Asp | Ile | Glu | Ala | Ala | Ile | Gly | Pro | 260 | 265 | 270 | 275 |
| Glu | Ala | Ala | Lys | Ile | Ala | Arg | Lys | Gln | Leu | Gly | Gln | Ser | Glu | Gly | 280 | 285 | 290 | 295 |
| Ser | Val | Ser | Leu | Ser | Leu | Val | Lys | Glu | Gln | Ala | Phe | Gly | Gly | Leu | 300 | 305 | 310 | 315 |
| Thr | Arg | Ala | Leu | Ala | Leu | Asp | Cys | Glu | Met | Val | Gly | Val | Gly | Pro | 320 | 325 | 330 | 335 |
| Lys | Gly | Glu | Glu | Ser | Met | Ala | Ala | Arg | Val | Ser | Ile | Val | Asn | Gln | 340 | 345 | 350 | 355 |
| Tyr | Gly | Lys | Cys | Val | Tyr | Asp | Lys | Tyr | Val | Lys | Pro | Thr | Glu | Pro | 360 | 365 | 370 | 375 |
| Val | Thr | Asp | Tyr | Arg | Thr | Ala | Val | Ser | Gly | Ile | Arg | Pro | Glu | Asn | 380 | 385 | 390 | 395 |
| Leu | Lys | Gln | Gly | Glu | Glu | Leu | Glu | Val | Val | Gln | Lys | Glu | Val | Ala | 400 |     |     |     |
| Glu | Met | Leu | Lys | Gly | Arg | Ile | Leu | Val | Gly | His | Ala | Leu | His | Asn |     |     |     |     |
| Asp | Leu | Lys | Val | Leu | Phe | Leu | Asp | His | Pro | Lys | Lys | Lys | Ile | Arg |     |     |     |     |
| Asp | Thr | Gln | Lys | Tyr | Lys | Pro | Phe | Lys | Ser | Gln | Val | Lys | Ser | Gly |     |     |     |     |
| Arg | Pro | Ser | Leu | Arg | Leu | Leu | Ser | Glu | Lys | Ile | Leu | Gly | Leu | Gln |     |     |     |     |
| Val | Gln | Gln | Ala | Glu | His | Cys | Ser | Ile | Gln | Asp | Ala | Gln | Ala | Ala |     |     |     |     |
| Met | Arg | Leu | Tyr | Val | Met | Val | Lys | Lys | Glu | Trp | Glu | Ser | Met | Ala |     |     |     |     |

Arg Asp Arg Arg Pro Leu Leu Thr Ala Pro Asp His Cys Ser Asp  
 410 415 420

Asp Ala

<210> 50

<211> 397

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5040573CD1

<400> 50

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Met | Ile | Glu | Leu | Gly | Phe | Gly | Arg | Gln | Asn | Phe | His | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Leu | Lys | Arg | Lys | Ser | Ser | Leu | Leu | Leu | Lys | Leu | Ile | Ala | Val | Val |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Phe | Ala | Val | Leu | Leu | Phe | Cys | Glu | Phe | Leu | Ile | Tyr | Tyr | Leu | Ala |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ile | Phe | Gln | Cys | Asn | Trp | Pro | Glu | Val | Lys | Thr | Thr | Ala | Ser | Asp |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Gly | Glu | Gln | Thr | Thr | Arg | Glu | Pro | Val | Leu | Lys | Ala | Met | Phe | Leu |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Ala | Asp | Thr | His | Leu | Leu | Gly | Glu | Phe | Leu | Gly | His | Trp | Leu | Asp |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Lys | Leu | Arg | Arg | Glu | Trp | Gln | Met | Glu | Arg | Ala | Phe | Gln | Thr | Ala |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Leu | Trp | Leu | Leu | Gln | Pro | Glu | Val | Val | Phe | Ile | Leu | Gly | Asp | Ile |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Phe | Asp | Glu | Gly | Lys | Trp | Ser | Thr | Pro | Glu | Ala | Trp | Ala | Asp | Asp |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Val | Glu | Arg | Phe | Gln | Lys | Met | Phe | Arg | His | Pro | Ser | His | Val | Gln |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Leu | Lys | Val | Val | Ala | Gly | Asn | His | Asp | Ile | Gly | Phe | His | Tyr | Glu |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Met | Asn | Thr | Tyr | Lys | Val | Glu | Arg | Phe | Glu | Lys | Val | Phe | Ser | Ser |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Glu | Arg | Leu | Phe | Ser | Trp | Lys | Gly | Ile | Asn | Phe | Val | Met | Val | Asn |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Ser | Val | Ala | Leu | Asn | Gly | Asp | Gly | Cys | Gly | Ile | Cys | Ser | Glu | Thr |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Glu | Ala | Glu | Leu | Ile | Glu | Val | Ser | His | Arg | Leu | Asn | Cys | Ser | Arg |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Glu | Gln | Ala | Arg | Gly | Ser | Ser | Arg | Cys | Gly | Pro | Gly | Pro | Leu | Leu |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Pro | Thr | Ser | Ala | Pro | Val | Leu | Leu | Gln | His | Tyr | Pro | Leu | Tyr | Arg |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Arg | Ser | Asp | Ala | Asn | Cys | Ser | Gly | Glu | Asp | Ala | Ala | Pro | Pro | Glu |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Glu | Arg | Asp | Ile | Pro | Phe | Lys | Glu | Asn | Tyr | Asp | Val | Leu | Ser | Arg |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Glu | Ala | Ser | Gln | Lys | Leu | Leu | Trp | Trp | Leu | Gln | Pro | Arg | Leu | Val |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Leu | Ser | Gly | His | Thr | His | Ser | Ala | Cys | Glu | Val | His | His | Gly | Gly |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Arg | Val | Pro | Glu | Leu | Ser | Val | Pro | Ser | Phe | Ser | Trp | Arg | Asn | Arg |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Asn | Asn | Pro | Ser | Phe | Ile | Met | Gly | Ser | Ile | Thr | Pro | Thr | Asp | Tyr |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Thr | Leu | Ser | Lys | Cys | Tyr | Leu | Pro | Arg | Glu | Asp | Val | Val | Leu | Ile |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Ile | Tyr | Cys | Gly | Val | Val | Gly | Phe | Leu | Val | Val | Leu | Thr | Leu | Thr |

|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 365                 |                     | 370 |  | 375 |
| His Phe Gly Leu | Leu Ala Ser Pro Phe | Leu Ser Gly Leu Asn | Leu |  |     |
|                 | 380                 |                     | 385 |  | 390 |
| Leu Gly Lys Arg | Lys Thr Arg         |                     |     |  |     |
|                 | 395                 |                     |     |  |     |

&lt;210&gt; 51

&lt;211&gt; 800

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5627029CD1

&lt;400&gt; 51

|                     |                     |                     |     |
|---------------------|---------------------|---------------------|-----|
| Met Gly Ser Ser Lys | Lys His Arg Gly Glu | Lys Glu Ala Ala Gly |     |
| 1                   | 5                   | 10                  | 15  |
| Thr Thr Ala Ala Ala | Gly Thr Gly Gly Ala | Thr Glu Gln Pro Pro |     |
|                     | 20                  | 25                  | 30  |
| Arg His Arg Glu His | Lys Lys His Lys His | Arg Ser Gly Gly Ser |     |
|                     | 35                  | 40                  | 45  |
| Gly Gly Ser Gly Gly | Glu Arg Arg Lys Arg | Ser Arg Glu Arg Gly |     |
|                     | 50                  | 55                  | 60  |
| Gly Glu Arg Gly Ser | Gly Arg Arg Gly Ala | Glu Ala Glu Ala Arg |     |
|                     | 65                  | 70                  | 75  |
| Ser Ser Thr His Gly | Arg Glu Arg Ser Gln | Ala Glu Pro Ser Glu |     |
|                     | 80                  | 85                  | 90  |
| Arg Arg Val Lys Arg | Glu Lys Arg Asp Asp | Gly Tyr Glu Ala Ala |     |
|                     | 95                  | 100                 | 105 |
| Ala Ser Ser Lys Thr | Ser Ser Gly Asp Ala | Ser Ser Leu Ser Ile |     |
|                     | 110                 | 115                 | 120 |
| Glu Glu Thr Asn Lys | Leu Arg Ala Lys Leu | Gly Leu Lys Pro Leu |     |
|                     | 125                 | 130                 | 135 |
| Glu Val Asn Ala Ile | Lys Lys Glu Ala Gly | Thr Lys Glu Glu Pro |     |
|                     | 140                 | 145                 | 150 |
| Val Thr Ala Asp Val | Ile Asn Pro Met Ala | Leu Arg Gln Arg Glu |     |
|                     | 155                 | 160                 | 165 |
| Glu Leu Arg Glu Lys | Leu Ala Ala Ala Lys | Glu Lys Arg Leu Leu |     |
|                     | 170                 | 175                 | 180 |
| Asn Gln Lys Leu Gly | Lys Ile Lys Thr Leu | Gly Glu Asp Asp Pro |     |
|                     | 185                 | 190                 | 195 |
| Trp Leu Asp Asp Thr | Ala Ala Trp Ile Glu | Arg Ser Arg Gln Leu |     |
|                     | 200                 | 205                 | 210 |
| Gln Lys Glu Lys Asp | Leu Ala Glu Lys Arg | Ala Lys Leu Leu Glu |     |
|                     | 215                 | 220                 | 225 |
| Glu Met Asp Gln Glu | Phe Gly Val Ser Thr | Leu Val Glu Glu Glu |     |
|                     | 230                 | 235                 | 240 |
| Phe Gly Gln Arg Arg | Gln Asp Leu Tyr Ser | Ala Arg Asp Leu Gln |     |
|                     | 245                 | 250                 | 255 |
| Gly Leu Thr Val Glu | His Ala Ile Asp Ser | Phe Arg Glu Gly Glu |     |
|                     | 260                 | 265                 | 270 |
| Thr Met Ile Leu Thr | Leu Lys Asp Lys Gly | Val Leu Gln Glu Glu |     |
|                     | 275                 | 280                 | 285 |
| Glu Asp Val Leu Val | Asn Val Asn Leu Val | Asp Lys Glu Arg Ala |     |
|                     | 290                 | 295                 | 300 |
| Glu Lys Asn Val Glu | Leu Arg Lys Lys Lys | Pro Asp Tyr Leu Pro |     |
|                     | 305                 | 310                 | 315 |
| Tyr Ala Glu Asp Glu | Ser Val Asp Asp Leu | Ala Gln Gln Lys Pro |     |
|                     | 320                 | 325                 | 330 |
| Arg Ser Ile Leu Ser | Lys Tyr Asp Glu Glu | Leu Glu Gly Glu Arg |     |
|                     | 335                 | 340                 | 345 |
| Pro His Ser Phe Arg | Leu Glu Gln Gly Gly | Thr Ala Asp Gly Leu |     |
|                     | 350                 | 355                 | 360 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Arg | Glu | Leu | Glu | Glu | Ile | Arg | Ala | Lys | Leu | Arg | Leu | Gln |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Ala | Gln | Ser | Leu | Ser | Thr | Val | Gly | Pro | Arg | Leu | Ala | Ser | Glu | Tyr |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Leu | Thr | Pro | Glu | Glu | Met | Val | Thr | Phe | Lys | Lys | Thr | Lys | Arg | Arg |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Val | Lys | Lys | Ile | Arg | Lys | Lys | Glu | Lys | Glu | Val | Val | Val | Arg | Ala |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Asp | Asp | Leu | Leu | Pro | Leu | Gly | Asp | Gln | Thr | Gln | Asp | Gly | Asp | Phe |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Gly | Ser | Arg | Leu | Arg | Gly | Arg | Gly | Arg | Arg | Arg | Val | Ser | Glu | Val |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Glu | Glu | Glu | Lys | Glu | Pro | Val | Pro | Gln | Pro | Leu | Pro | Ser | Asp | Asp |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Thr | Arg | Val | Glu | Asn | Met | Asp | Ile | Ser | Asp | Glu | Glu | Glu | Gly | Gly |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Ala | Pro | Pro | Pro | Ala | Ser | Pro | Gln | Val | Leu | Glu | Glu | Asp | Glu | Ala |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Glu | Leu | Glu | Leu | Gln | Lys | Gln | Leu | Glu | Lys | Gly | Arg | Arg | Leu | Arg |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Gln | Leu | Gln | Gln | Leu | Gln | Gln | Leu | Arg | Asp | Ser | Gly | Glu | Lys | Val |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Val | Glu | Ile | Val | Lys | Lys | Leu | Glu | Ser | Arg | Gln | Arg | Gly | Trp | Glu |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |
| Glu | Asp | Glu | Asp | Pro | Glu | Arg | Lys | Gly | Ala | Ile | Val | Phe | Asn | Ala |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |
| Thr | Ser | Glu | Phe | Cys | Arg | Thr | Leu | Gly | Glu | Ile | Pro | Thr | Tyr | Gly |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |
| Leu | Ala | Gly | Asn | Arg | Glu | Glu | Gln | Glu | Glu | Leu | Met | Asp | Phe | Glu |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |
| Arg | Asp | Glu | Glu | Arg | Ser | Ala | Asn | Gly | Gly | Ser | Glu | Ser | Asp | Gly |
|     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |
| Glu | Glu | Asn | Ile | Gly | Trp | Ser | Thr | Val | Asn | Leu | Asp | Glu | Glu | Lys |
|     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |
| Gln | Gln | Gln | Asp | Phe | Ser | Ala | Ser | Ser | Thr | Thr | Ile | Leu | Asp | Glu |
|     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |
| Glu | Pro | Ile | Val | Asn | Arg | Gly | Leu | Ala | Ala | Ala | Leu | Leu | Leu | Cys |
|     |     |     |     | 635 |     |     |     |     | 640 |     |     |     |     | 645 |
| Gln | Asn | Lys | Gly | Leu | Leu | Glu | Thr | Thr | Val | Gln | Lys | Val | Ala | Arg |
|     |     |     |     | 650 |     |     |     |     | 655 |     |     |     |     | 660 |
| Val | Lys | Ala | Pro | Asn | Lys | Ser | Leu | Pro | Ser | Ala | Val | Tyr | Cys | Ile |
|     |     |     |     | 665 |     |     |     |     | 670 |     |     |     |     | 675 |
| Glu | Asp | Lys | Met | Ala | Ile | Asp | Asp | Lys | Tyr | Ser | Arg | Arg | Glu | Glu |
|     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |     | 690 |
| Tyr | Arg | Gly | Phe | Thr | Gln | Asp | Phe | Lys | Glu | Lys | Asp | Gly | Tyr | Lys |
|     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     | 705 |
| Pro | Asp | Val | Lys | Ile | Glu | Tyr | Val | Asp | Glu | Thr | Gly | Arg | Lys | Leu |
|     |     |     |     | 710 |     |     |     |     | 715 |     |     |     |     | 720 |
| Thr | Pro | Lys | Glu | Ala | Phe | Arg | Gln | Leu | Ser | His | Arg | Phe | His | Gly |
|     |     |     |     | 725 |     |     |     |     | 730 |     |     |     |     | 735 |
| Lys | Gly | Ser | Gly | Lys | Met | Lys | Thr | Glu | Arg | Arg | Met | Lys | Lys | Leu |
|     |     |     |     | 740 |     |     |     |     | 745 |     |     |     |     | 750 |
| Asp | Glu | Glu | Ala | Leu | Leu | Lys | Lys | Met | Ser | Ser | Ser | Asp | Thr | Pro |
|     |     |     |     | 755 |     |     |     |     | 760 |     |     |     |     | 765 |
| Leu | Gly | Thr | Val | Ala | Leu | Leu | Gln | Glu | Lys | Gln | Lys | Ala | Gln | Lys |
|     |     |     |     | 770 |     |     |     |     | 775 |     |     |     |     | 780 |
| Thr | Pro | Tyr | Ile | Val | Leu | Ser | Gly | Ser | Gly | Lys | Ser | Met | Asn | Ala |
|     |     |     |     | 785 |     |     |     |     | 790 |     |     |     |     | 795 |
| Asn | Thr | Ile | Thr | Lys |     |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 800 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 52

&lt;211&gt; 713

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5678487CD1

&lt;400&gt; 52

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Lys | Ser | Pro | Glu | Asn | Ser | Thr | Leu | Glu | Glu | Ile | Leu | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Gln | Tyr | Gln | Arg | Ser | Leu | Arg | Glu | His | Ala | Ser | Arg | Ser | Ile | His |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Gln | Leu | Thr | Cys | Ala | Leu | Lys | Glu | Gly | Asp | Val | Thr | Ile | Gly | Glu |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Asp | Ala | Pro | Asn | Leu | Ser | Phe | Ser | Thr | Ser | Val | Gly | Asn | Glu | Asp |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Ala | Arg | Thr | Ala | Trp | Pro | Glu | Leu | Gln | Gln | Ser | His | Ala | Val | Asn |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Gln | Leu | Lys | Asp | Leu | Leu | Arg | Gln | Gln | Ala | Asp | Lys | Glu | Ser | Glu |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Val | Ser | Pro | Ser | Arg | Arg | Arg | Lys | Met | Ser | Pro | Leu | Arg | Ser | Leu |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Glu | His | Glu | Glu | Thr | Asn | Met | Pro | Thr | Met | His | Asp | Leu | Val | His |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Thr | Ile | Asn | Asp | Gln | Ser | Gln | Tyr | Ile | His | His | Leu | Glu | Ala | Glu |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Val | Lys | Phe | Cys | Lys | Glu | Glu | Leu | Ser | Gly | Met | Lys | Asn | Lys | Ile |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Gln | Val | Val | Val | Leu | Glu | Asn | Glu | Gly | Leu | Gln | Gln | Gln | Leu | Lys |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Ser | Gln | Arg | Gln | Glu | Glu | Thr | Leu | Arg | Glu | Gln | Thr | Leu | Leu | Asp |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ala | Ser | Gly | Asn | Met | His | Asn | Ser | Trp | Ile | Thr | Thr | Gly | Glu | Asp |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Ser | Gly | Val | Gly | Glu | Thr | Ser | Lys | Arg | Pro | Phe | Ser | His | Asp | Asn |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Ala | Asp | Phe | Gly | Lys | Ala | Ala | Ser | Ala | Gly | Glu | Gln | Leu | Glu | Leu |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Glu | Lys | Leu | Lys | Leu | Thr | Tyr | Glu | Glu | Lys | Cys | Glu | Ile | Glu | Glu |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Gln | Leu | Lys | Phe | Leu | Arg | Asn | Asp | Leu | Ala | Glu | Tyr | Gln | Arg |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Thr | Cys | Glu | Asp | Leu | Lys | Glu | Gln | Leu | Lys | His | Lys | Glu | Phe | Leu |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Leu | Ala | Ala | Asn | Thr | Cys | Asn | Arg | Val | Gly | Gly | Leu | Cys | Leu | Lys |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Cys | Ala | Gln | His | Glu | Ala | Val | Leu | Ser | Gln | Thr | His | Thr | Asn | Val |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| His | Met | Gln | Thr | Ile | Glu | Arg | Leu | Val | Lys | Glu | Arg | Asp | Asp | Leu |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Met | Ser | Ala | Leu | Val | Ser | Val | Arg | Ser | Ser | Leu | Ala | Asp | Thr | Gln |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Gln | Arg | Glu | Ala | Ser | Ala | Tyr | Glu | Gln | Val | Lys | Gln | Val | Leu | Gln |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Ile | Ser | Glu | Glu | Ala | Asn | Phe | Glu | Lys | Thr | Lys | Ala | Leu | Ile | Gln |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Cys | Asp | Gln | Leu | Arg | Lys | Glu | Leu | Glu | Arg | Gln | Ala | Glu | Arg | Leu |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Glu | Lys | Asp | Leu | Ala | Ser | Gln | Gln | Glu | Lys | Arg | Ala | Ile | Glu | Lys |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Asp | Met | Met | Lys | Lys | Glu | Ile | Thr | Lys | Glu | Arg | Glu | Tyr | Met | Gly |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Ser | Lys | Met | Leu | Ile | Leu | Ser | Gln | Asn | Ile | Ala | Gln | Leu | Glu | Ala |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Gln | Val | Glu | Lys | Val | Thr | Lys | Glu | Lys | Ile | Ser | Ala | Ile | Asn | Gln |  |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |  |
| Leu | Glu | Glu | Ile | Gln | Ser | Gln | Leu | Ala | Ser | Arg | Glu | Met | Asp | Val |  |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |  |
| Thr | Lys | Val | Cys | Gly | Glu | Met | Arg | Tyr | Gln | Leu | Asn | Lys | Thr | Asn |  |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |  |
| Met | Glu | Lys | Asp | Glu | Ala | Glu | Lys | Glu | His | Arg | Glu | Phe | Arg | Ala |  |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |  |
| Lys | Thr | Asn | Arg | Asp | Leu | Glu | Ile | Lys | Asp | Gln | Glu | Ile | Glu | Lys |  |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |  |
| Leu | Arg | Ile | Glu | Leu | Asp | Glu | Ser | Lys | Gln | His | Leu | Glu | Gln | Glu |  |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |  |
| Gln | Gln | Lys | Ala | Ala | Leu | Ala | Arg | Glu | Glu | Cys | Leu | Arg | Leu | Thr |  |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |  |
| Glu | Leu | Leu | Gly | Glu | Ser | Glu | His | Gln | Leu | His | Leu | Thr | Arg | Gln |  |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |  |
| Glu | Lys | Asp | Ser | Ile | Gln | Gln | Ser | Phe | Ser | Lys | Glu | Ala | Lys | Ala |  |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |  |
| Gln | Ala | Leu | Gln | Ala | Gln | Gln | Arg | Glu | Gln | Glu | Leu | Thr | Gln | Lys |  |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |  |
| Ile | Gln | Gln | Met | Glu | Ala | Gln | His | Asp | Lys | Thr | Glu | Asn | Glu | Gln |  |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |  |
| Tyr | Leu | Leu | Leu | Thr | Ser | Gln | Asn | Thr | Phe | Leu | Thr | Lys | Leu | Lys |  |
|     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |  |
| Glu | Glu | Cys | Cys | Thr | Leu | Ala | Lys | Lys | Leu | Glu | Gln | Ile | Ser | Gln |  |
|     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |  |
| Lys | Thr | Arg | Ser | Glu | Ile | Ala | Gln | Leu | Ser | Gln | Glu | Lys | Arg | Tyr |  |
|     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |  |
| Thr | Tyr | Asp | Lys | Leu | Gly | Lys | Leu | Gln | Arg | Arg | Asn | Glu | Glu | Leu |  |
|     |     |     |     | 635 |     |     |     |     | 640 |     |     |     |     | 645 |  |
| Glu | Glu | Gln | Cys | Val | Gln | His | Gly | Arg | Val | His | Glu | Thr | Met | Lys |  |
|     |     |     |     | 650 |     |     |     |     | 655 |     |     |     |     | 660 |  |
| Gln | Arg | Leu | Arg | Gln | Leu | Asp | Lys | His | Ser | Gln | Ala | Thr | Ala | Gln |  |
|     |     |     |     | 665 |     |     |     |     | 670 |     |     |     |     | 675 |  |
| Gln | Leu | Val | Gln | Leu | Leu | Ser | Lys | Gln | Asn | Gln | Leu | Leu | Leu | Glu |  |
|     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |     | 690 |  |
| Arg | Gln | Ser | Leu | Ser | Glu | Glu | Val | Asp | Arg | Leu | Arg | Thr | Gln | Leu |  |
|     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     | 705 |  |
| Pro | Ser | Met | Pro | Gln | Ser | Asp | Cys |     |     |     |     |     |     |     |  |
|     |     |     |     | 710 |     |     |     |     |     |     |     |     |     |     |  |

&lt;210&gt; 53

&lt;211&gt; 880

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5682976CD1

&lt;400&gt; 53

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Ser | Arg | Gly | Gly | Ser | Cys | Pro | His | Leu | Leu | Trp | Asp | Val | Arg |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |
| Lys | Arg | Ser | Leu | Gly | Leu | Glu | Asp | Pro | Ser | Arg | Leu | Arg | Ser | Arg |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |
| Tyr | Leu | Gly | Arg | Arg | Glu | Phe | Ile | Gln | Arg | Leu | Lys | Leu | Glu | Ala |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |
| Thr | Leu | Asn | Val | His | Asp | Gly | Cys | Val | Asn | Thr | Ile | Cys | Trp | Asn |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |
| Asp | Thr | Gly | Glu | Tyr | Ile | Leu | Ser | Gly | Ser | Asp | Asp | Thr | Lys | Leu |  |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |
| Val | Ile | Ser | Asn | Pro | Tyr | Ser | Arg | Lys | Val | Leu | Thr | Thr | Ile | Arg |  |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |  |
| Ser | Gly | His | Arg | Ala | Asn | Ile | Phe | Ser | Ala | Lys | Phe | Leu | Pro | Cys |  |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Thr | Asn | Asp | Lys | Gln | Ile | Val | Ser | Cys | Ser | Gly | Asp | Gly | Val | Ile |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Phe | Tyr | Thr | Asn | Val | Glu | Gln | Asp | Ala | Glu | Thr | Asn | Arg | Gln | Cys |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Gln | Phe | Thr | Cys | His | Tyr | Gly | Thr | Thr | Tyr | Glu | Ile | Met | Thr | Val |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Pro | Asn | Asp | Pro | Tyr | Thr | Phe | Leu | Ser | Cys | Gly | Glu | Asp | Gly | Thr |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Val | Arg | Trp | Phe | Asp | Thr | Arg | Ile | Lys | Thr | Ser | Cys | Thr | Lys | Glu |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Asp | Cys | Lys | Asp | Asp | Ile | Leu | Ile | Asn | Cys | Arg | Arg | Ala | Ala | Thr |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Ser | Val | Ala | Ile | Cys | Pro | Pro | Ile | Pro | Tyr | Tyr | Leu | Ala | Val | Gly |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Cys | Ser | Asp | Ser | Ser | Val | Arg | Ile | Tyr | Asp | Arg | Arg | Met | Leu | Gly |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Thr | Arg | Ala | Thr | Gly | Asn | Tyr | Ala | Gly | Arg | Gly | Thr | Thr | Gly | Met |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Val | Ala | Arg | Phe | Ile | Pro | Ser | His | Leu | Asn | Asn | Lys | Ser | Cys | Arg |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Val | Thr | Ser | Leu | Cys | Tyr | Ser | Glu | Asp | Gly | Gln | Glu | Ile | Leu | Val |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Ser | Tyr | Ser | Ser | Asp | Tyr | Ile | Tyr | Leu | Phe | Asp | Pro | Lys | Asp | Asp |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Thr | Ala | Arg | Glu | Leu | Lys | Thr | Pro | Ser | Ala | Glu | Glu | Arg | Arg | Glu |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Glu | Leu | Arg | Gln | Pro | Pro | Val | Lys | Arg | Leu | Arg | Leu | Arg | Gly | Asp |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Trp | Ser | Asp | Thr | Gly | Pro | Arg | Ala | Arg | Pro | Glu | Ser | Glu | Arg | Glu |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Arg | Asp | Gly | Glu | Gln | Ser | Pro | Asn | Val | Ser | Leu | Met | Gln | Arg | Met |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Ser | Asp | Met | Leu | Ser | Arg | Trp | Phe | Glu | Glu | Ala | Ser | Glu | Val | Ala |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Gln | Ser | Asn | Arg | Gly | Arg | Gly | Arg | Ser | Arg | Pro | Arg | Gly | Gly | Thr |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Ser | Gln | Ser | Asp | Ile | Ser | Thr | Leu | Pro | Thr | Val | Pro | Ser | Ser | Pro |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Asp | Leu | Glu | Val | Ser | Glu | Thr | Ala | Met | Glu | Val | Asp | Thr | Pro | Ala |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Glu | Gln | Phe | Leu | Gln | Pro | Ser | Thr | Ser | Ser | Thr | Met | Ser | Ala | Gln |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Ala | His | Ser | Thr | Ser | Ser | Pro | Thr | Glu | Ser | Pro | His | Ser | Thr | Pro |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Leu | Leu | Ser | Ser | Pro | Asp | Ser | Glu | Gln | Arg | Gln | Ser | Val | Glu | Ala |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Ser | Gly | His | His | Thr | His | His | Gln | Ser | Asp | Ser | Pro | Ser | Ser | Val |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Val | Asn | Lys | Gln | Leu | Gly | Ser | Met | Ser | Leu | Asp | Glu | Gln | Gln | Asp |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Asn | Asn | Asn | Glu | Lys | Leu | Ser | Pro | Lys | Pro | Gly | Thr | Gly | Glu | Pro |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Val | Leu | Ser | Leu | His | Tyr | Ser | Thr | Glu | Gly | Thr | Thr | Thr | Ser | Thr |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Ile | Lys | Leu | Asn | Phe | Thr | Asp | Glu | Trp | Ser | Ser | Ile | Ala | Ser | Ser |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Ser | Arg | Gly | Ile | Gly | Ser | His | Cys | Lys | Ser | Glu | Gly | Gln | Glu | Glu |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |
| Ser | Phe | Val | Pro | Gln | Ser | Ser | Val | Gln | Pro | Pro | Glu | Gly | Asp | Ser |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |
| Glu | Thr | Lys | Ala | Pro | Glu | Glu | Ser | Ser | Glu | Asp | Val | Thr | Lys | Tyr |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Glu | Gly | Val | Ser | Ala | Glu | Asn | Pro | Val | Glu | Asn | His | Ile | Asn |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |
| Ile | Thr | Gln | Ser | Asp | Lys | Phe | Thr | Ala | Lys | Pro | Leu | Asp | Ser | Asn |
|     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |
| Ser | Gly | Glu | Arg | Asn | Asp | Leu | Asn | Leu | Asp | Arg | Ser | Cys | Gly | Val |
|     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |
| Pro | Glu | Glu | Ser | Ala | Ser | Ser | Glu | Lys | Ala | Lys | Glu | Pro | Glu | Thr |
|     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |
| Ser | Asp | Gln | Thr | Ser | Thr | Glu | Ser | Ala | Thr | Asn | Glu | Asn | Asn | Thr |
|     |     |     |     | 635 |     |     |     |     | 640 |     |     |     |     | 645 |
| Asn | Pro | Glu | Pro | Gln | Phe | Gln | Thr | Glu | Ala | Thr | Gly | Pro | Ser | Ala |
|     |     |     |     | 650 |     |     |     |     | 655 |     |     |     |     | 660 |
| His | Glu | Glu | Thr | Ser | Thr | Arg | Asp | Ser | Ala | Leu | Gln | Asp | Thr | Asp |
|     |     |     |     | 665 |     |     |     |     | 670 |     |     |     |     | 675 |
| Asp | Ser | Asp | Asp | Asp | Pro | Val | Leu | Ile | Pro | Gly | Ala | Arg | Tyr | Arg |
|     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |     | 690 |
| Ala | Gly | Pro | Gly | Asp | Arg | Arg | Ser | Ala | Val | Ala | Arg | Ile | Gln | Glu |
|     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     | 705 |
| Phe | Phe | Arg | Arg | Arg | Lys | Glu | Arg | Lys | Glu | Met | Glu | Glu | Leu | Asp |
|     |     |     |     | 710 |     |     |     |     | 715 |     |     |     |     | 720 |
| Thr | Leu | Asn | Ile | Arg | Arg | Pro | Leu | Val | Lys | Met | Val | Tyr | Lys | Gly |
|     |     |     |     | 725 |     |     |     |     | 730 |     |     |     |     | 735 |
| His | Arg | Asn | Ser | Arg | Thr | Met | Ile | Lys | Glu | Ala | Asn | Phe | Trp | Gly |
|     |     |     |     | 740 |     |     |     |     | 745 |     |     |     |     | 750 |
| Ala | Asn | Phe | Val | Met | Ser | Gly | Ser | Asp | Cys | Gly | His | Ile | Phe | Ile |
|     |     |     |     | 755 |     |     |     |     | 760 |     |     |     |     | 765 |
| Trp | Asp | Arg | His | Thr | Ala | Glu | His | Leu | Met | Leu | Leu | Glu | Ala | Asp |
|     |     |     |     | 770 |     |     |     |     | 775 |     |     |     |     | 780 |
| Asn | His | Val | Val | Asn | Cys | Leu | Gln | Pro | His | Pro | Phe | Asp | Pro | Ile |
|     |     |     |     | 785 |     |     |     |     | 790 |     |     |     |     | 795 |
| Leu | Ala | Ser | Ser | Gly | Ile | Asp | Tyr | Asp | Ile | Lys | Ile | Trp | Ser | Pro |
|     |     |     |     | 800 |     |     |     |     | 805 |     |     |     |     | 810 |
| Leu | Glu | Glu | Ser | Arg | Ile | Phe | Asn | Arg | Lys | Leu | Ala | Asp | Glu | Val |
|     |     |     |     | 815 |     |     |     |     | 820 |     |     |     |     | 825 |
| Ile | Thr | Arg | Asn | Glu | Leu | Met | Leu | Glu | Glu | Thr | Arg | Asn | Thr | Ile |
|     |     |     |     | 830 |     |     |     |     | 835 |     |     |     |     | 840 |
| Thr | Val | Pro | Ala | Ser | Phe | Met | Leu | Arg | Met | Leu | Ala | Ser | Leu | Asn |
|     |     |     |     | 845 |     |     |     |     | 850 |     |     |     |     | 855 |
| His | Ile | Arg | Ala | Asp | Arg | Leu | Glu | Gly | Asp | Arg | Ser | Glu | Gly | Ser |
|     |     |     |     | 860 |     |     |     |     | 865 |     |     |     |     | 870 |
| Gly | Gln | Glu | Asn | Glu | Asn | Glu | Asp | Glu | Glu |     |     |     |     |     |
|     |     |     |     | 875 |     |     |     |     | 880 |     |     |     |     |     |

&lt;210&gt; 54

&lt;211&gt; 855

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5992432CD1

&lt;400&gt; 54

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Val | Met | Ala | Arg | Leu | Ser | Arg | Pro | Glu | Arg | Pro | Asp | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Val | Phe | Glu | Glu | Glu | Asp | Leu | Pro | Tyr | Glu | Glu | Glu | Ile | Met | Arg |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Asn | Gln | Phe | Ser | Val | Lys | Cys | Trp | Leu | Arg | Tyr | Ile | Glu | Phe | Lys |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Gln | Gly | Ala | Pro | Lys | Pro | Arg | Leu | Asn | Gln | Leu | Tyr | Glu | Arg | Ala |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Leu | Lys | Leu | Leu | Pro | Cys | Ser | Tyr | Lys | Leu | Trp | Tyr | Arg | Tyr | Leu |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Lys | Ala | Arg | Arg | Ala | Gln | Val | Lys | His | Arg | Cys | Val | Thr | Asp | Pro |

|                 |                     |                     |     |
|-----------------|---------------------|---------------------|-----|
| Ala Tyr Glu Asp | Val Asn Asn Cys His | Glu Arg Ala Phe Val | Phe |
| 80              | 85                  | 90                  |     |
| 95              | 100                 | 105                 |     |
| Met His Lys Met | Pro Arg Leu Trp Leu | Asp Tyr Cys Gln Phe | Leu |
| 110             | 115                 | 120                 |     |
| Met Asp Gln Gly | Arg Val Thr His Thr | Arg Arg Thr Phe Asp | Arg |
| 125             | 130                 | 135                 |     |
| Ala Leu Arg Ala | Leu Pro Ile Thr Gln | His Ser Arg Ile Trp | Pro |
| 140             | 145                 | 150                 |     |
| Leu Tyr Leu Arg | Phe Leu Arg Ser His | Pro Leu Pro Glu Thr | Ala |
| 155             | 160                 | 165                 |     |
| Val Arg Gly Tyr | Arg Arg Phe Leu Lys | Leu Ser Pro Glu Ser | Ala |
| 170             | 175                 | 180                 |     |
| Glu Glu Tyr Ile | Glu Tyr Leu Lys Ser | Ser Asp Arg Leu Asp | Glu |
| 185             | 190                 | 195                 |     |
| Ala Ala Gln Arg | Leu Ala Thr Val Val | Asn Asp Glu Arg Phe | Val |
| 200             | 205                 | 210                 |     |
| Ser Lys Ala Gly | Lys Ser Asn Tyr Gln | Leu Trp His Glu Leu | Cys |
| 215             | 220                 | 225                 |     |
| Asp Leu Ile Ser | Gln Asn Pro Asp Lys | Val Gln Ser Leu Asn | Val |
| 230             | 235                 | 240                 |     |
| Asp Ala Ile Ile | Arg Gly Gly Leu Thr | Arg Phe Thr Asp Gln | Leu |
| 245             | 250                 | 255                 |     |
| Gly Lys Leu Trp | Cys Ser Leu Ala Asp | Tyr Tyr Ile Arg Ser | Gly |
| 260             | 265                 | 270                 |     |
| His Phe Glu Lys | Ala Arg Asp Val Tyr | Glu Glu Ala Ile Arg | Thr |
| 275             | 280                 | 285                 |     |
| Val Met Thr Val | Arg Asp Phe Thr Gln | Val Phe Asp Ser Tyr | Ala |
| 290             | 295                 | 300                 |     |
| Gln Phe Glu Glu | Ser Met Ile Ala Ala | Lys Met Glu Thr Ala | Ser |
| 305             | 310                 | 315                 |     |
| Glu Leu Gly Arg | Glu Glu Glu Asp Asp | Val Asp Leu Glu Leu | Arg |
| 320             | 325                 | 330                 |     |
| Leu Ala Arg Phe | Glu Gln Leu Ile Ser | Arg Arg Pro Leu Leu | Leu |
| 335             | 340                 | 345                 |     |
| Asn Ser Val Leu | Leu Arg Gln Asn Pro | His His Val His Glu | Trp |
| 350             | 355                 | 360                 |     |
| His Lys Arg Val | Ala Leu His Gln Gly | Arg Pro Arg Glu Ile | Ile |
| 365             | 370                 | 375                 |     |
| Asn Thr Tyr Thr | Glu Ala Val Gln Thr | Val Asp Pro Phe Lys | Ala |
| 380             | 385                 | 390                 |     |
| Thr Gly Lys Pro | His Thr Leu Trp Val | Ala Phe Ala Lys Phe | Tyr |
| 395             | 400                 | 405                 |     |
| Glu Asp Asn Gly | Gln Leu Asp Asp Ala | Arg Val Ile Leu Glu | Lys |
| 410             | 415                 | 420                 |     |
| Ala Thr Lys Val | Asn Phe Lys Gln Val | Asp Asp Leu Ala Ser | Val |
| 425             | 430                 | 435                 |     |
| Trp Cys Gln Cys | Gly Glu Leu Glu Leu | Arg His Glu Asn Tyr | Asp |
| 440             | 445                 | 450                 |     |
| Glu Ala Leu Arg | Leu Leu Arg Lys Ala | Thr Ala Leu Pro Ala | Arg |
| 455             | 460                 | 465                 |     |
| Arg Ala Glu Tyr | Phe Asp Gly Ser Glu | Pro Val Gln Asn Arg | Val |
| 470             | 475                 | 480                 |     |
| Tyr Lys Ser Leu | Lys Val Trp Ser Met | Leu Ala Asp Leu Glu | Glu |
| 485             | 490                 | 495                 |     |
| Ser Leu Gly Thr | Phe Gln Ser Thr Lys | Ala Val Tyr Asp Arg | Ile |
| 500             | 505                 | 510                 |     |
| Leu Asp Leu Arg | Ile Ala Thr Pro Gln | Ile Val Ile Asn Tyr | Ala |
| 515             | 520                 | 525                 |     |
| Met Phe Leu Glu | Glu His Lys Tyr Phe | Glu Glu Ser Phe Lys | Ala |
| 530             | 535                 | 540                 |     |
| Tyr Glu Arg Gly | Ile Ser Leu Phe Lys | Trp Pro Asn Val Ser | Asp |
| 545             | 550                 | 555                 |     |

|                                     |                         |
|-------------------------------------|-------------------------|
| Ile Trp Ser Thr Tyr Leu Thr Lys Phe | Ile Ala Arg Tyr Gly Gly |
| 560                                 | 565 570                 |
| Arg Lys Leu Glu Arg Ala Arg Asp Leu | Phe Glu Gln Ala Leu Asp |
| 575                                 | 580 585                 |
| Gly Cys Pro Pro Lys Tyr Ala Lys Thr | Leu Tyr Leu Leu Tyr Ala |
| 590                                 | 595 600                 |
| Gln Leu Glu Glu Glu Trp Gly Leu Ala | Arg His Ala Met Ala Val |
| 605                                 | 610 615                 |
| Tyr Glu Arg Ala Thr Arg Ala Val Glu | Pro Ala Gln Gln Tyr Asp |
| 620                                 | 625 630                 |
| Met Phe Asn Ile Tyr Ile Lys Arg Ala | Ala Glu Ile Tyr Gly Val |
| 635                                 | 640 645                 |
| Thr His Thr Arg Gly Ile Tyr Gln Lys | Ala Ile Glu Val Leu Ser |
| 650                                 | 655 660                 |
| Asp Glu His Ala Arg Glu Met Cys Leu | Arg Phe Ala Asp Met Glu |
| 665                                 | 670 675                 |
| Cys Lys Leu Gly Glu Ile Asp Arg Ala | Arg Ala Ile Tyr Ser Phe |
| 680                                 | 685 690                 |
| Cys Ser Gln Ile Cys Asp Pro Arg Thr | Thr Gly Ala Phe Trp Gln |
| 695                                 | 700 705                 |
| Thr Trp Lys Asp Phe Glu Val Arg His | Gly Asn Glu Asp Thr Ile |
| 710                                 | 715 720                 |
| Lys Glu Met Leu Arg Ile Arg Arg Ser | Val Gln Ala Thr Tyr Asn |
| 725                                 | 730 735                 |
| Thr Gln Val Asn Phe Met Ala Ser Gln | Met Leu Lys Val Ser Gly |
| 740                                 | 745 750                 |
| Ser Ala Thr Gly Thr Val Ser Asp Leu | Ala Pro Gly Gln Ser Gly |
| 755                                 | 760 765                 |
| Met Asp Asp Met Lys Leu Leu Glu Gln | Arg Ala Glu Gln Leu Ala |
| 770                                 | 775 780                 |
| Ala Glu Ala Glu Arg Asp Gln Pro Leu | Arg Ala Gln Ser Lys Ile |
| 785                                 | 790 795                 |
| Leu Phe Val Arg Ser Asp Ala Ser Arg | Glu Glu Leu Ala Glu Leu |
| 800                                 | 805 810                 |
| Ala Gln Gln Val Asn Pro Glu Glu Ile | Gln Leu Gly Glu Asp Glu |
| 815                                 | 820 825                 |
| Asp Glu Asp Glu Met Asp Leu Glu Pro | Asn Glu Val Arg Leu Glu |
| 830                                 | 835 840                 |
| Gln Gln Ser Val Pro Ala Ala Val Phe | Gly Ser Leu Lys Glu Asp |
| 845                                 | 850 855                 |

&lt;210&gt; 55

&lt;211&gt; 1598

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 116462CB1

&lt;400&gt; 55

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ggcttccttt tccgggtctc gaggtgtctg aaaccgaaac cgctgtgtctg tgggcgcagc 240
gccgagattg attcaccttc acctgtgtctg cactccagct gaccgaagta ggaagccaga 300
cgagctgtaa aacatgaacg gaagagtggg ttatttggtc actgaggaag agatcaatct 360
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gcagcacagg ttacaggtgc agaattggacc tataggacat cgaggtgaag gggacccaag 660
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&lt;210&gt; 56

&lt;211&gt; 1432

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1210462CB1

&lt;400&gt; 56

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ccttttgaac tggaaaagga tttacatttg aagggtatc acacactctc tcagggatct 360
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&lt;210&gt; 57

&lt;211&gt; 2317

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1305252CB1

&lt;400&gt; 57

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tgaattcttt atgaatgcaa agaaaaataa acctgagtgg aggggaagagc aaatggcatc 300
catcaaaaaa gactactata aagcttttga agatgcagat gagaagggtc agttggcaaa 360
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&lt;210&gt; 58

&lt;211&gt; 1774

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1416289CB1

&lt;400&gt; 58

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ttcaggtgcc ttgaatggct tctaaacaat ttgatgactc accagaatgt tgaacttttt 180
aaagaactca gtataaatgt catgaaacag ctcatgggtt catctaactt atttgtgatg 240
caagtggaga tggatatata cactgctcta aaaaagtggg tgttccttca acttgtgcct 300
tcttggaatg gatcttttaa acagcttttg acagaaacag atgtctgggt ttctaaacag 360
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ctactgatat tcacatcgaa ggtgactaac aatgacaaaag gccttatgaa ctgtacagac 1140
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&lt;210&gt; 59

&lt;211&gt; 1268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1558289CB1

&lt;400&gt; 59

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&lt;210&gt; 60

&lt;211&gt; 1331

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1577739CB1

&lt;400&gt; 60

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&lt;210&gt; 61

&lt;211&gt; 3227

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1752768CB1

&lt;400&gt; 61

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&lt;210&gt; 62

&lt;211&gt; 1865

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1887228CB1

&lt;400&gt; 62

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1865

&lt;210&gt; 63

&lt;211&gt; 1924

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1988468CB1

&lt;400&gt; 63

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&lt;211&gt; 948

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&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2049176CB1

&lt;400&gt; 64

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<211> 2035

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2686765CB1

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<210> 66

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<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3215187CB1

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&lt;400&gt; 67

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<210> 68  
 <211> 541  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 5080410CB1

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<210> 69  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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<210> 70  
 <211> 823  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 058336CB1

<400> 70

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<210> 71  
 <211> 1033  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1511488CB1

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<210> 72  
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 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1638819CB1

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&lt;210&gt; 73

&lt;211&gt; 2449

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1655123CB1

&lt;400&gt; 73

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&lt;210&gt; 74

&lt;211&gt; 1689

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2553926CB1

&lt;400&gt; 74

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&lt;210&gt; 75

&lt;211&gt; 2489

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 2800717CB1

&lt;400&gt; 75

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&lt;210&gt; 76

&lt;211&gt; 898

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5664154CB1

&lt;400&gt; 76

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ttttgacca gtttgtaagt ttctgtcagc aggagagttt tacctattgc atggaaagat 840

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gctcattata tattgtgaag ttaataaaac agtttttaaaa agcaaaaaaa aaaaaaaa 898

<210> 77

<211> 1236

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 017900CB1

<400> 77

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| gcagcgatgg  | acggtcgggt | gcagctgata | aaggccctcc  | tggccttgcc  | gatccggcct | 120  |
| gcgacgcgtc  | gctggaggaa | cccgattccc | tttcccagaga | cgtttgacgg  | cgataccgac | 180  |
| cgactcccgg  | agttcatcgt | gcagacgggc | tcctacatgt  | tcgtggacga  | gaacacgttc | 240  |
| tccagcgacg  | ccctgaaggt | gacgttcctc | atcacccgcc  | tcacagggcc  | cgccctgcag | 300  |
| tgggtgatcc  | cctacatcaa | gaaggagagc | cccctcctca  | atgattaccg  | gggctttctg | 360  |
| gccgagatga  | agcgagtctt | tggatgggag | gaggacgagg  | acttctaggc  | cgggagaccc | 420  |
| tcgggcctgg  | gggcgggtgc | tctggggagg | gtccgctgtg  | ttactggccg  | ccgccagggt | 480  |
| cgccaccggc  | gccctccctc | cgcgccctcc | tccccctcga  | gccgccgcga  | tgtcccctgc | 540  |
| gctcctgttc  | cctcccgcgt | agtgccttgc | tttggtccag  | gaatagcgct  | ccaggctcct | 600  |
| gctgccgccc  | ctgggcctca | ctctggagcg | agccgccgcc  | ctctccttcc  | agccagccag | 660  |
| cccctcccat  | gtacatttgg | acgctgtcct | gcgctccage  | tgcaagctgg  | gctcctgtta | 720  |
| cacactggac  | agaccaccca | ctgccgccgc | tgccaagccc  | tctcctcccc  | accagactgc | 780  |
| cagacgacta  | catcattctg | cccacagacc | tgcgctgcc   | cagccatcgc  | catccatcgc | 840  |
| atcccaccga  | cagactgctg | ctcctagtga | tctggactca  | cctcggagggt | atctgggctg | 900  |
| gccacagtcc  | ctggacagtg | atccagacag | ctggccgccc  | cccaagggat  | ctgtcacctt | 960  |
| cagcgagacc  | tatttcctcc | ccacccccag | aaacctcttg  | tgttcttgcc  | taggcccagg | 1020 |
| tgttcctggc  | agccaaatcg | agtctctcat | tttctcttgt  | ggaccagtta  | gttttgccca | 1080 |
| taacgcagta  | ttctgagttt | gcaactgtct | ctctgatgtg  | tgccctttgt  | tcaacacagt | 1140 |
| aacccttgc   | ttctgctctg | ctctaataca | ctacctggag  | aaagtctttt  | ccttatcttc | 1200 |
| aataaatgtc  | agacattatt | gaaaagaaaa | aaaaaa      |             |            | 1236 |

<210> 78

<211> 1634

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 035102CB1

<400> 78

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| tactcccgcc | gtcactgccg  | ctgtccaacc | cctcccccg   | ggcttgccg  | gcggctccca | 120  |
| caccctcgg  | cccgtgtacg  | cgctctgcac | ctgcctgccc  | gaaaacatgt | tgcagacacc | 180  |
| agagagcagg | gggctcccgg  | tcccgcaggc | cgagggggag  | aaggatggcg | gcatgatgg  | 240  |
| tgagacccgg | gccccgaccg  | cctcgcagga | gcgcccgaag  | gaggagcttg | gcgccgggag | 300  |
| ggaggagggg | gctgcggagc  | ccgccctcac | ccggaaaggc  | gcgagggcct | tggcggccaa | 360  |
| atccttggca | aggcgcaggg  | cctaccgccg | gctgaatcgg  | acgggtggcg | agttggtgca | 420  |
| gttcctcctg | gtgaaagaca  | agaagaagag | tcccatcaca  | cgctcggaga | tggtgaaata | 480  |
| cgttattgga | gacttgaaga  | ttctgttccc | ggacatcatc  | gcaagggccg | cagagcatct | 540  |
| gcggtatgtc | tttggttttg  | agctgaaaca | gtttgaccgc  | aagcaccaca | cttacatcct | 600  |
| gatcaacaaa | ctaaaacctc  | tggaggagga | ggaggaggag  | gaggatcttg | gaggagatgg | 660  |
| cccagattg  | ggtctgttaa  | tgatgatect | gggccttata  | tatatgagag | gtaatagcgc | 720  |
| cagggaggcc | caggtctggg  | agatgctgcg | tcggttgggg  | gtgcaaccct | caaagtatca | 780  |
| tttcctcttt | gggtatccga  | agaggcttat | tatggaagat  | tttgtgcagc | agcgatatct | 840  |
| cagttacagg | cgggtgcctc  | acaccaatcc | accagcatat  | gaattctctt | ggggtccccg | 900  |
| aagcaacctg | gaaatcagca  | agatggaagt | cctgggggttc | gtggccaaac | tgcataagaa | 960  |
| ggaaccgcag | cactggccag  | tgcagtaccg | tgaggcccta  | gcagacgagg | ccgacagggc | 1020 |
| cagagccaag | gccagagctg  | aagccagtat | gagggccagg  | gccagtgcta | gggccggcat | 1080 |
| ccacctctgg | tgaggggttg  | tgaaaagttg | gccagtgggt  | ccccgtgagg | acgaactact | 1140 |

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gtcctgagtc ataagtaata tgggtggggc gaggggtctta tttctgtaga aatcgtgtga 1200
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tataaaagaa gaaagactgg catgtacctt catttgctta gctatttgag tatctagaga 1560
aaaattaaaa tgcaatgagt tagcagtata ccctggcaca cttaataaat taaacatttg 1620
tggaaaaaaa aaaa                                     1634

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<210> 79  
 <211> 1258  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 259983CB1

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<400> 79
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tattgcgcgt ggaacggctg cttttggaag gcacaacttc ctgaatggac catgactccc 180
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ccagaagaaa agatgttttg ttttcacaag ccaaagatgt accgaagtat agagggctgc 360
tgtatttgca gagctaagtc ctccagttct cgattcactg acagtaaacy ctatgaaaag 420
gacttccaga gctgttttgg attgcatgag actcgttcag gagacatctg caatgcctgt 480
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cgtcataatt ctgatgctca cagtaccacc tcaagtgcct cccagctca atctccttgt 720
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<210> 80  
 <211> 2223  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 926810CB1

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agttctttgc cgcctgcaag gcggagacca gaaggcgga tccacagctg gcgacgcggg 180
agcatctgct gtccaccagc ggagcacagg ccatcaaagc cgcacttgaa cttgaattct 240
gtgcagctga ttgcagagct ggacccggat ctgcgacccc ctgtggacag aggttgaccg 300
taccgccgag aggagctttc tcacggaggg cactggttgc agaggctgga agtgaaataa 360
agacgcgctc ttgtttcaga gttcgtcccc tgctgagata ggaaggcaga gccacctcct 420
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tgaatgcacc cttgccgcct tgggccatt ccattgctgag gtccctgggg agaagtctcg 600
gtcctataat ggccagcatg gcagacagaa acatgaagtt gttctcgggg aggggtggtg 660

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cagcccaagg ggaagaaacc tttgaaaact ggctgacca agtcaatggc gtcctgccag 720
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cccgcgaggt catgctgtgt cttcaggcga ccaaccctaa cctaagtgtg gcagatttct 840
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ctatgtaccc agatagatat atgcatagat aaaagtgtg aaatataagt gctgttctat 2160
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act 2223

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&lt;210&gt; 81

&lt;211&gt; 1370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1398816CB1

&lt;400&gt; 81

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tgthttccctt ccttcatatg aggaagatca gggatcaaaa ctcatcga aagctaaaga 180
ggcaccattc gtacccgttg gaatagcggg ttttgcagca attgttgc atggattata 240
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&lt;210&gt; 82



&lt;211&gt; 1541

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1496820CB1

&lt;400&gt; 82

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aagaacggga aaggcggaat caggaaattc agcagggcga agacgccttc ccacctagct 180
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caaagcttgt tgcaattccc aagcctacag taccaccatc agcagatgaa aaatctaacc 360
caaattttct tgaacagaga catggaggct ctcctcagag tagcaaattg actccagtag 420
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&lt;210&gt; 83

&lt;211&gt; 1372

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1514559CB1

&lt;400&gt; 83

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 <211> 868  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1620092CB1

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tttcataaag tatgatttgc ccaaacctgt accatttccg tatttctgct gtagaagtag 840
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1678765CB1

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&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 1708229CB1

&lt;400&gt; 86

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&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 1806454CB1

&lt;400&gt; 87

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&lt;223&gt; Incyte ID No: 1806850CB1

&lt;400&gt; 88

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&lt;213&gt; Homo sapiens

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&lt;400&gt; 90

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&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 1980010CB1

&lt;400&gt; 91

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&lt;210&gt; 92

&lt;211&gt; 4037

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2259032CB1

&lt;400&gt; 92

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&lt;211&gt; 2031

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&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 2359526CB1

&lt;400&gt; 93

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&lt;210&gt; 96

&lt;211&gt; 2046

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 2683225CB1

&lt;400&gt; 96

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&lt;210&gt; 97

&lt;211&gt; 2660

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

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&lt;400&gt; 97

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&lt;210&gt; 98

&lt;211&gt; 4610

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2959521CB1

&lt;400&gt; 98

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&lt;210&gt; 99

&lt;211&gt; 1889

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3082014CB1

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 1809, 1848, 1853, 1880

&lt;223&gt; a, t, c, g, or other

&lt;400&gt; 99

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&lt;210&gt; 100

&lt;211&gt; 2032

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 3520701CB1

&lt;400&gt; 100

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&lt;223&gt; Incyte ID No: 4184320CB1

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&lt;212&gt; DNA

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&lt;220&gt;

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&lt;400&gt; 102

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&lt;400&gt; 104

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&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5682976CB1

&lt;400&gt; 107

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